



SPLIT-TYPE, COOLING AIR CONDITIONERS

**No. OC134**

REVISED EDITION-A

# TECHNICAL & SERVICE MANUAL

## Series PC Ceiling Suspended

Indoor unit

[Model names]

**PC-2GJA****PC-2.5GJA****PC-3GJA****PC-4GJSA****PC-5GJSA****PC-6GJSA**

[Service Ref.]

1997 **PC-2GJA<sub>1</sub>****PC-2.5GJA<sub>1</sub>****PC-3GJA<sub>1</sub>****PC-4GJSA<sub>1</sub>**1998 **PC-5GJSA<sub>1</sub>****PC-6GJSA<sub>1</sub>**

This manual does not cover the following outdoor units. When serving them, please refer to the service manual No.OC127(REVISED EDITION-A) .

[Service Ref.]

PU-2VJA2

PU-2NJA1

PU-2.5VJA2

PU-2.5NJA1

PU-3NJA1

PU-3YJA3

PU-3VJA2

PU-4TJSA2

PU-4VLJSA2

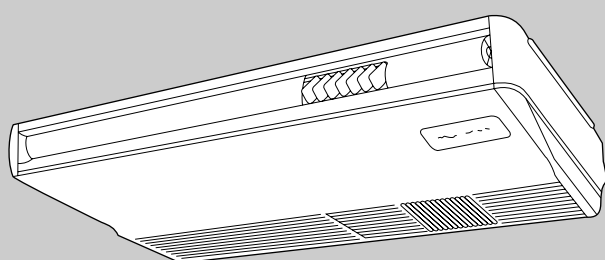
PU-4YJSA3

PU-5YJSA

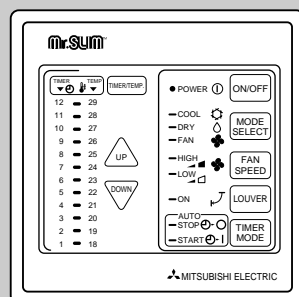
PU-5TJSA

PU-6YJSA

PU-6TJSA



INDOOR UNIT



REMOTE CONTROLLER

### Revision:

- PC-5GJSA<sub>1</sub>, PC-6GJSA<sub>1</sub> are added.
- The first edition has been partially modified.
- Please destroy OC134.

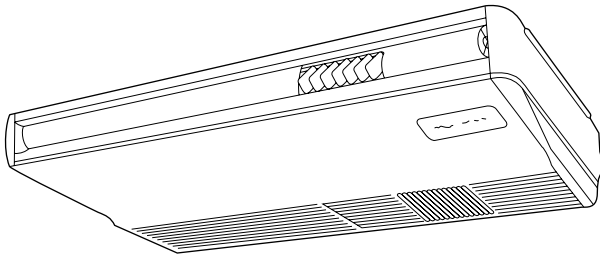
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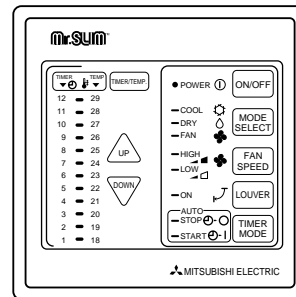
The Slim Line.  
From Mitsubishi Electric.

**Mr. SLIM™**

## Series PC Ceiling Suspended



Indoor unit



Remote controller

Service Ref.	Cooling Capacity (50 / 60Hz)	
	W	Btu/h
PC-2GJA1	5,600/5,400	19,100/18,400
PC-2.5GJA1	6,500/7,000	22,200/23,900
PC-3GJA1	7,200/7,800	24,600/26,600
PC-4GJSA1	9,800/10,800	33,400/36,800
PC-5GJSA1	12,400/13,500	42,300/46,100
PC-6GJSA1	14,600/15,200	49,800/51,900

Note: Rating condition

Indoor : 27°C D.B., 19°C W.B.

Outdoor : 35°C D.B., 24°C W.B.

### 1. ADVANCED REMOTE CONTROLLER

#### (1) Ultra-thin 12mm (1/2") remote controller

The streamlined, square controller is designed to blend with any interior. Also, the sophisticated microprocessor allows you to easily carry out a wide range of operations.

#### (2) Attractive LED display

Every operation condition is indicated on the LED display.

#### (3) Simultaneous display of set temperature and room temperature

The set temperature is indicated by continuous light and the room temperature is indicated by a flashing light. In this way, accurate temperature conditions are always available at a glance and fine temperature regulation is possible.

#### (4) Convenient 12-hour ON-OFF timer

The timer switches on and off automatically at the times you set. Once the timer is set, the remaining time is shown on the LED display.

#### (5) Self-diagnostic feature indicates faults instantly

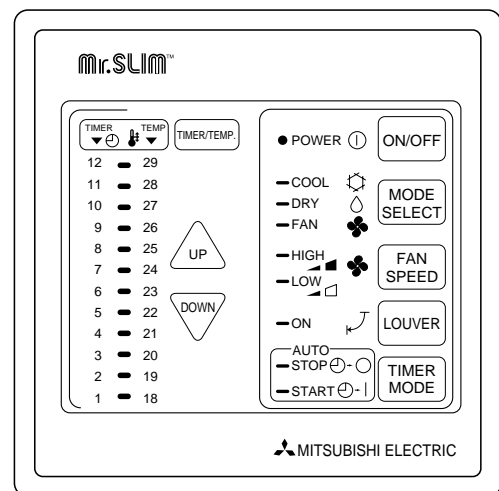
If a problem occurs, the unit will stop operating and the temperature display will change to a self-diagnosis indicator, which shows the location of the trouble.

#### (6) Useful memory feature for storing instructions

The previous set value is memorized so that constant temperature control can be achieved. For example, if a power failure occurs, the temperature will not have to be readjusted afterwards.

#### (7) Cables between remote controller and indoor unit

The polar, 12-core type remote controller cables makes installation simple and troublefree. Also, the cables can be extended up to 50m. (optional)



## 1. AIR OUTLET

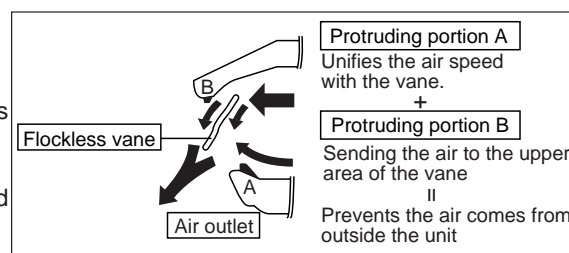
New PC series models have 1 air outlet (auto vane switching of horizontal air flow / down flow by switched by auto vane) instead of 2 (horizontal, and down flows).

## 2. EASY TO CLEAN ; FLOCKLESS VANE

With our original air current control mechanism, a flockless vane is newly adapted.

The flockless vane prevents the condensation on the vane.

By changing the vane to the flockless type, the unit can be cleaned much easier with mild household detergent.



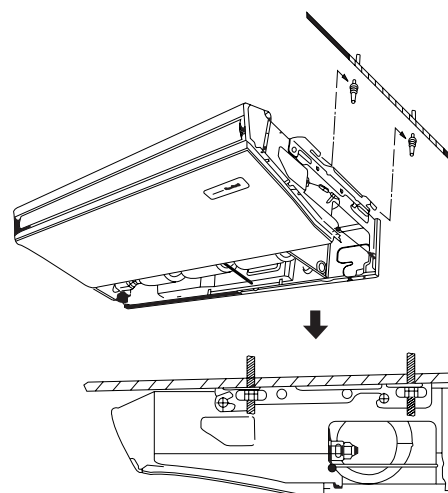
## 3. NEW MATERIALS FOR BETTER OIL RESISTANCE

We have changed the materials of grill, filter, fan and fan casing from ABS to P.P. (polypropylene) for better oil resistance. As a result, oil crazing is cut in half.

## 4. SIMPLIFIED INSTALLATION WORK (DIRECT SUSPENDING METHOD)

Simplified the installation work by changing the suspending method to the direct suspending method (suspending the unit directly from the suspension fixture).

In this way, the unit can be attached to the suspension fixture without removing the installation parts off (Only the side cover is removed). This method is much simpler than the "One-time installation method".

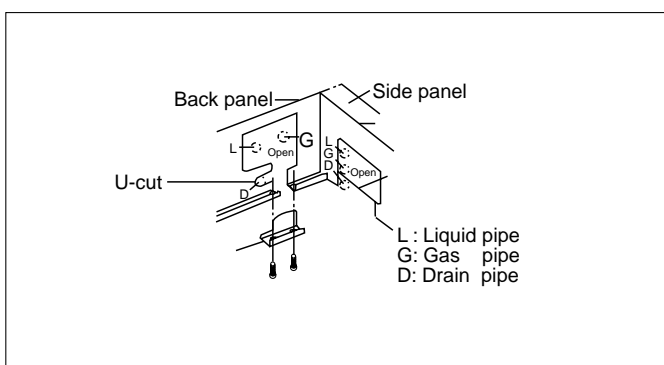


## 5. IMPROVING EFFICIENCY OF PIPING WORK

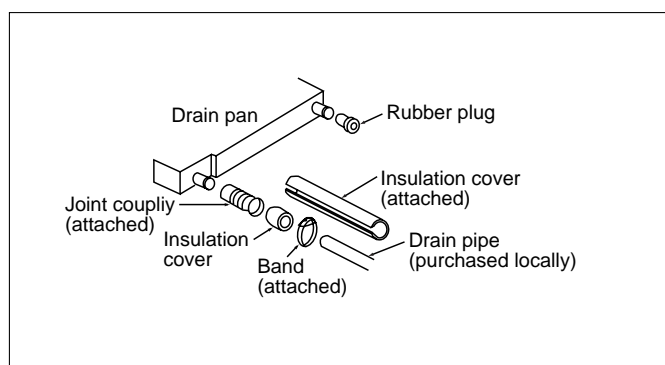
New PC series models have 1 air outlet (auto vane switching of horizontal air flow / down flow by switched by auto vane) instead of 2 (horizontal, and down flows).

① Removed the knockout work by separating the piping space from the air outlet for efficiency of the piping work.

② Improved the flexibility by making it possible for drainage pipe to exit not only from the right side back but also from the left side back.



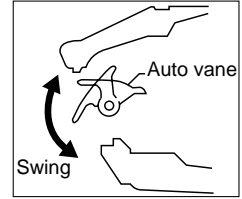
※ Knockout work is needed for the top part. When optional drain-up machine is installed, the refrigerant pipe exits out from the top.



※ Please move the rubber plug for the unit to the right joint when drainage pipe exits from the left side.

## 6. QUIETNESS ; 43dB : PC-3GJA1(HIGH NOTCH)

Quietness of the New PC series product is significant. It is because we have adapted the new shape air outlet and changed the air courses.



## 7. EASY MAINTENANCE ; NO MAINTENANCE NECESSARY FOR 2500 HOURS

The new long-life air filter can be used continuously 2500 hours without maintenance (at general office situation).

## 8. CHOICE OF FILTER

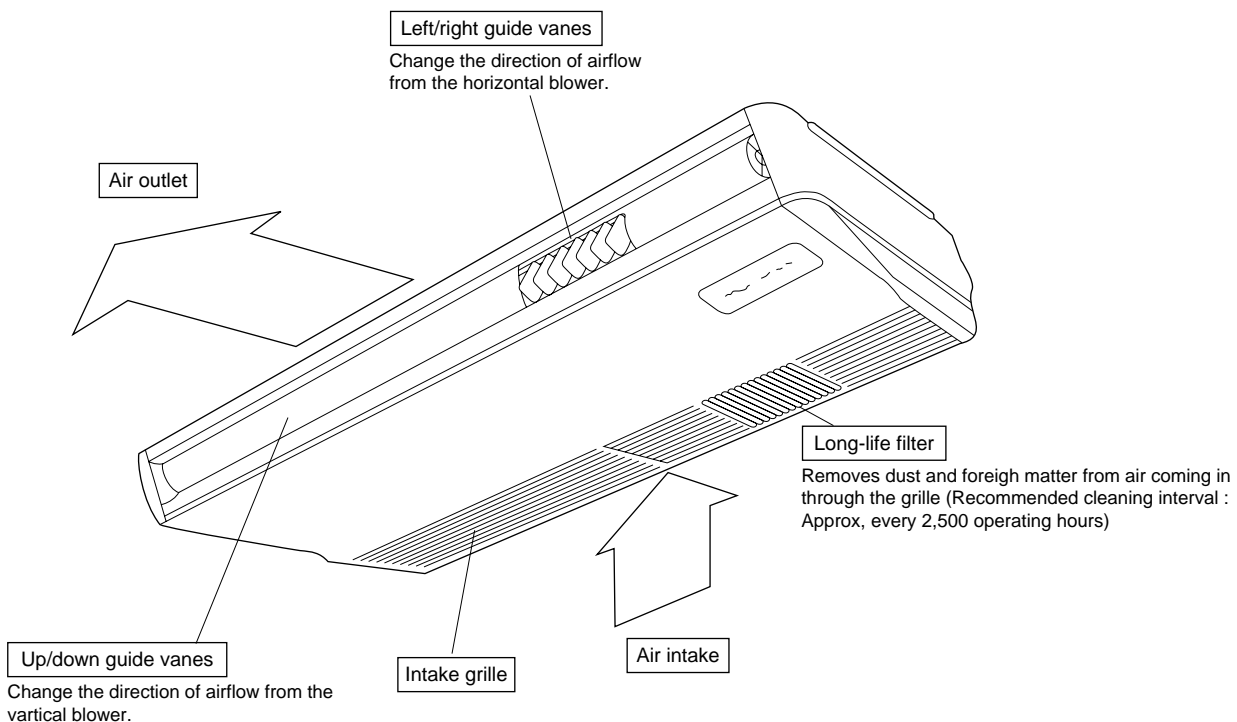
High performance filter can be purchased optionally for the special needs.

Locations	Appropriate filter	Capability	Filter	Maintenance	How to attach to the unit
Busy shops etc...	High performance filter	Weighing method 70%	2500 hours	The filter can be used again after cleaning.	Remove the standard long life filter before attach this optional parts.
Regular office, shops	Standard longlife filter	Weighing method 30%	2500 hours	The filter can be used again after cleaning.	It is already attached to the unit

## 2

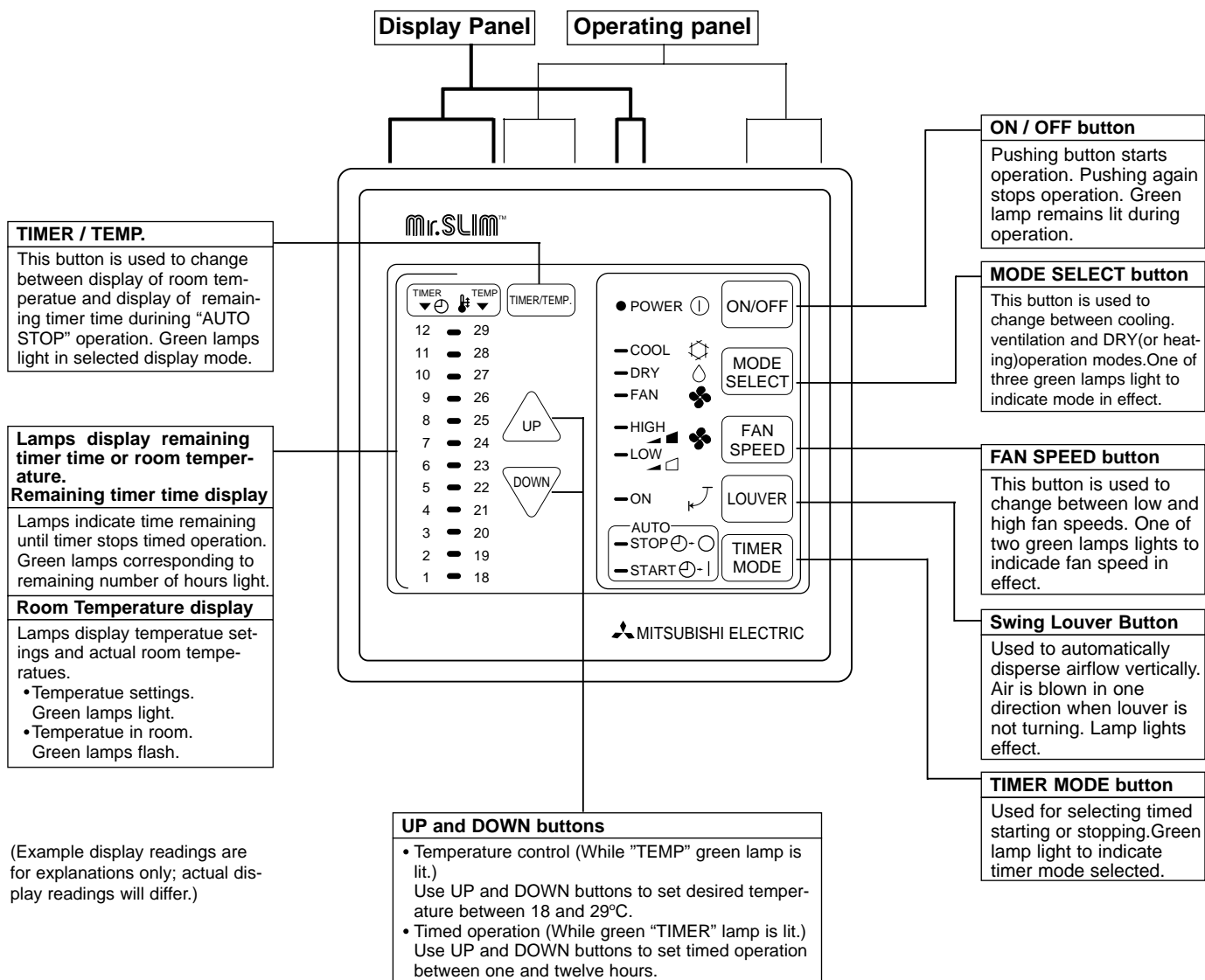
## PART NAMES AND FUNCTION

### ● Indoor (Main) Unit



## ● Remote controller

Settings remain in effect until changed. Air conditioner can be operated by simply pushing ON/OFF button once settings have been made.



### Attention:

- Pushing UP and DOWN buttons together for more than two seconds will initiate "trial run" or "inspection" mode. Avoid pushing these buttons simultaneously during normal operation. Push ON / OFF button to cancel trial run or inspection mode if initiated by accident.
  - All green lamps turn off when air conditioner is stopped.
  - Avoid operation of buttons with fingernails or other sharp object. Sharp object may scratch operating panel.
- \*Heating operation mode is only available for models with built-in electric heater.**

## 1. STANDARD SPECIFICATIONS

Service Ref.			PC-2GJA <sub>1</sub>	PC-2.5GJA <sub>1</sub>	PC-3GJA <sub>1</sub>	PC-4GJSA <sub>1</sub>	
Item							
Cooling capacity ※1	50Hz	W	5,600	6,500	7,200	9,800	
		Btu/h	19,100	22,200	24,600	33,400	
	60Hz	W	5,400	7,000	7,800	10,800	
		Btu/h	18,400	23,900	26,600	36,800	
Cooling capacity ※4	60Hz	W	4,300	6,200	6,500	9,300	
		Btu/h	14,700	21,200	22,200	31,700	
Total input (50/60Hz) ※2			2.54/2.60	2.58/3.07	3.30/3.60	3.49/4.47	
Indoor unit	Service Ref.		PC-2GJA <sub>1</sub>	PC-2.5GJA <sub>1</sub>	PC-3GJA <sub>1</sub>	PC-4GJSA <sub>1</sub>	
	External finish		Munsell 0.70Y 8.59/0.97				
	Fan motor output		0.054	0.07	0.07	0.09	
	Airflow Lo-Hi	50Hz	m/min	10-13	14-18	14-18	20-25
			CFM	353-459	494-635	494-635	706-883
		60Hz	m/min	10-13	14-18	14-18	20-25
			CFM	353-459	494-635	494-635	706-883
	External static pressure		Pa(mmAq)	0 (Direct blow)			
	Operation control & Thermostat		Remote control & Built-in				
	Noise level Low-High	50Hz	dB(A)	37-42	37-43	37-43	40-45
		60Hz	dB(A)	37-42	37-43	37-43	40-45
	Cond. drain connector	O.D.	mm(in.)	26 (1)	26 (1)	26 (1)	26 (1)
	Dimensions	W	mm(in.)	1000 (39-3/8)	1310 (51-9/16)	1310 (51-9/16)	1310 (51-9/16)
		D	mm(in.)	680 (26-3/4)	680 (26-3/4)	680 (26-3/4)	680 (26-3/4)
		H	mm(in.)	210 (8-1/4)	210 (8-1/4)	210 (8-1/4)	270 (10-5/8)
	Weight		kg(lbs.)	27 (60)	34 (75)	34 (75)	37 (82)
Outdoor unit	Service Ref.		PU-2VJA <sub>2</sub> ,PU-2NJA <sub>1</sub>	PU-2.5VJA <sub>2</sub> ,PU-2.5NJA <sub>1</sub>	※9 PU-3JA-type	※10 PU-4JSA-type	
	External finish		Munsell 5Y 7/1				
	Refrigerant (R-22) control		Capillary tube				
	Crankcase Heater ※3	50/60Hz	W	32/-	32/-	32/38	32/38
	Compressor output	50/60Hz	kW	2.0/1.5	2.0/1.7	2.2/2.2	2.7/2.7
	Protection devices		※5	※5	※5	※7(V)/※6(Y,T)	
	Fan motor output		kW	0.065	0.085	0.085	0.065+0.065
	Airflow	50Hz	m³/min(CFM)	45 (1588)	50 (1765)	50 (1765)	95 (3352)
		60Hz	m³/min(CFM)	45 (1588)	50 (1765)	50 (1765)	95 (3352)
	Noise level	50/60Hz	dB(A)	49/50	52/53	52/53	54/55
	Dimensions	W	mm(in.)	870 (34-1/4)	870 (34-1/4)	870 (34-1/4)	870 (34-1/4)
		D	mm(in.)	295+24 (11-5/8 add 1)			
		H	mm(in.)	650 (25-5/8)	850 (33-7/16)	850 (33-7/16)	1258 (49-1/2)
	Weight		kg(lbs.)	60 (132)	71 (157)	73 (161)	94 (207)

Notes : \*1. Rating condition (JISB8616)

Indoor : 27°C (80°F) D.B., 19°C (66°F) W.B.

Outdoor : 35°C (95°F) D.B., 24°C (75°F) W.B.

Refrigerant piping length (one way) : 5m (16ft)

\*2. Total input based indicated voltage (In/Out)

Models	PC-2,2.5,3	PC-4,5,6
50Hz	1ph220V / 1ph220V	1ph220V / 3ph380V
60Hz	1ph220V / 1ph220V	1ph220V / 3ph220V

Rating conditions (JISB8616)

\*3. The capacity of crankcase heater (W)

\*4. Rating condition (SSA385, 386)

Indoor : 29°C (84°F) D.B., 19°C (66°F) W.B.

Outdoor : 46°C (115°F) D.B., 24°C (75°F) W.B.

Refrigerant piping length (one way) : 5m (16ft)

\*5. Inner thermostat, HP switch, LP switch

\*6. Thermal switch, Reversed-phase protector, HP switch, LP switch  
Thermal relay\*7. Thermal switch, HP switch, LP switch,  
Inner thermostat

\*8. Thermal switch, HP switch, Inner thermostat

\*9. PU-3JA-type...PU-3VJA<sub>2</sub>, PU-3YJA<sub>3</sub>, PU-3NJA<sub>1</sub>,\*10. PU-4JSA-type...PU-4VLJSA<sub>2</sub>, PU-4YJSA<sub>3</sub>, PU-4TJSA<sub>2</sub>



Service Ref.			PC-5GJSA <sub>1</sub>	PC-6GJSA <sub>1</sub>	
Item					
Cooling capacity ※1	50Hz	W	12,400	14,600	
		Btu/h	42,300	49,800	
	60Hz	W	13,500	15,200	
		Btu/h	46,100	51,900	
Cooling capacity ※4	60Hz	W	11,600	13,400	
		Btu/h	39,600	45,700	
Total input (50/60Hz) ※2			4.76/5.89	5.31/6.41	
Indoor unit	Service Ref.		PC-5GJSA <sub>1</sub>	PC-6GJSA <sub>1</sub>	
	External finish		Munsell 0.70Y 8.59/0.97		
	Fan motor output		0.15	0.15	
	Airflow Lo-Hi	50Hz	m³/min	27-34	27-34
			CFM	953-1,200	953-1,200
		60Hz	m³/min	27-34	27-34
			CFM	953-1,200	953-1,200
	External static pressure		Pa(mmAq)	0 (Direct blow)	
	Operation control & Thermostat		Remote control & Built-in		
	Noise level Low-High	50Hz	dB(A)	41-46	42-48
		60Hz	dB(A)	41-46	42-48
	Cond. drain connector	O.D.	mm(in.)	26(1)	26(1)
	Dimensions	W	mm(in.)	1,620(63-3/4)	1,620(63-3/4)
		D	mm(in.)	680(26-3/4)	680(26-3/4)
		H	mm(in.)	270(10-5/8)	270(10-5/8)
	Weight		kg(lbs.)	43(95)	45(99)
Outdoor unit	Service Ref.		PU-5YJSA,PU-5TJSA	PU-6YJSA,PU-6TJSA	
	External finish		Munsell 5Y 7/1		
	Refrigerant (R-22) control		Capillary tube		
	Crankcase Heater ※3	50/60Hz	W	—	—
	Compressor output	50/60Hz	kW	3.5	4.2/4.0
	Protection devices		※8	※8	
	Fan motor output		kW	0.10+0.10	0.10+0.10
	Airflow	50Hz	m³/min(CFM)	100(3530)	100(3530)
		60Hz	m³/min(CFM)	100(3530)	100(3530)
	Noise level	50/60Hz	dB(A)	55	56
	Dimensions	W	mm(in.)	970(38-3/16)	970(38-3/16)
		D	mm(in.)	345+24(13-9/16+1)	345+24(13-9/16+1)
		H	mm(in.)	1,258(49-1/2)	1,258(49-1/2)
	Weight		kg(lbs.)	114	117

## 2. POWER SUPPLY & MODEL NAMES

Power supply		Indoor unit Service Ref.	PC-2GJA <sub>1</sub>	PC-2.5GJA <sub>1</sub>	PC-3GJA <sub>1</sub>	PC-4GJSA <sub>1</sub>	PC-5GJSA <sub>1</sub>	PC-6GJSA <sub>1</sub>
			Outdoor unit Service Ref.					
50Hz	1ph.	220,230,240V	PU-2VJA <sub>2</sub>	PU-2.5VJA <sub>2</sub>	PU-3VJA <sub>2</sub>	PU-4VLJSA <sub>2</sub>	—	—
	3ph.	380/220, 400/230, 415/240V	—	—	PU-3YJA <sub>3</sub>	PU-4YJSA <sub>3</sub>	PU-5YJSA	PU-6YJSA
60Hz	1ph.	220V	PU-2NJA <sub>1</sub>	PU-2.5NJA <sub>1</sub>	PU-3NJA <sub>1</sub>	—	—	—
	3ph.	220V	—	—	—	PU-4TJSA <sub>2</sub>	PU-5TJSA	PU-6TJSA

Notes : 1. Power supply key N : 1ph, 220V/60Hz T : 3ph, 220V/60Hz  
V(L) : 1ph, 220, 230, 240V/50Hz Y : 3ph, 380/220, 400/230, 415/240V, 50Hz, 4wires  
2. Primary power supplies for all indoor units are single-phase.

### 3. ELECTRICAL SPECIFICATIONS

Rating conditions — JIS B8616 Indoor : 27°C (80°F) D.B., 19°C (66°F) W.B.

Outdoor : 35°C (95°F) D.B., 24°C(75°F) W.B.

Series PC Indoor unit (Single phase)

Power supply (1 Phase)		V : 220V , 50Hz					
Service Ref.		PC-2GJA <sub>1</sub>	PC-2.5GJA <sub>1</sub>	PC-3GJA <sub>1</sub>	PC-4GJSA <sub>1</sub>	PC-5GJSA <sub>1</sub>	PC-6GJSA <sub>1</sub>
Current	A	0.38	0.51	0.51	0.68	0.96	0.96
Input	kW	0.10	0.12	0.12	0.14	0.20	0.20
Starting current	A	1.10	1.17	1.17	1.36	2.00	2.00
Outdoor unit to be connected		PU-2	PU-2.5	PU-3	PU-4	PU-5	PU-6

Power supply (1 Phase)		V : 230V , 50Hz					
Service Ref.		PC-2GJA <sub>1</sub>	PC-2.5GJA <sub>1</sub>	PC-3GJA <sub>1</sub>	PC-4GJSA <sub>1</sub>	PC-5GJSA <sub>1</sub>	PC-6GJSA <sub>1</sub>
Current	A	0.41	0.53	0.53	0.69	1.01	1.01
Input	kW	0.12	0.13	0.13	0.15	0.22	0.22
Starting current	A	1.15	1.22	1.22	1.42	2.10	2.10
Outdoor unit to be connected		PU-2	PU-2.5	PU-3	PU-4	PU-5	PU-6

Power supply (1 Phase)		V : 240V , 50Hz					
Service Ref.		PC-2GJA <sub>1</sub>	PC-2.5GJA <sub>1</sub>	PC-3GJA <sub>1</sub>	PC-4GJSA <sub>1</sub>	PC-5GJSA <sub>1</sub>	PC-6GJSA <sub>1</sub>
Current	A	0.43	0.55	0.55	0.70	1.06	1.06
Input	kW	0.14	0.15	0.15	0.16	0.25	0.25
Starting current	A	1.20	1.27	1.27	1.48	2.20	2.20
Outdoor unit to be connected		PU-2	PU-2.5	PU-3	PU-4	PU-5	PU-6

Power supply (1 Phase)		N : 220V , 60Hz					
Service Ref.		PC-2GJA <sub>1</sub>	PC-2.5GJA <sub>1</sub>	PC-3GJA <sub>1</sub>	PC-4GJSA <sub>1</sub>	PC-5GJSA <sub>1</sub>	PC-6GJSA <sub>1</sub>
Current	A	0.61	0.70	0.70	0.95	1.20	1.20
Input	kW	0.15	0.16	0.16	0.20	0.26	0.26
Starting current	A	1.03	1.11	1.11	1.27	1.91	1.91
Outdoor unit to be connected		PU-2	PU-2.5	PU-3	PU-4	PU-5	PU-6

Rating conditions — SSA385, 386

Indoor : 29°C (84°F) D.B., 19°C (66°F) W.B.

Outdoor : 46°C (115°F) D.B., 24°C(75°F) W.B.

Power supply (1 Phase)		N : 220V , 60Hz					
Service Ref.		PC-2GJA <sub>1</sub>	PC-2.5GJA <sub>1</sub>	PC-3GJA <sub>1</sub>	PC-4GJSA <sub>1</sub>	PC-5GJSA <sub>1</sub>	PC-6GJSA <sub>1</sub>
Current	A	0.61	0.70	0.70	0.95	1.20	1.20
Input	kW	0.15	0.16	0.16	0.20	0.26	0.26
Starting current	A	1.03	1.11	1.11	1.27	1.91	1.91
Outdoor unit to be connected		PU-2	PU-2.5	PU-3	PU-4	PU-5	PU-6



## 1. PERFORMANCE DATA

## Cooling capacity 50Hz

Service Ref.		PC-2GJA <sub>1</sub>		PC-2.5GJA <sub>1</sub>		PC-3GJA <sub>1</sub>		PC-4GJSA <sub>1</sub>		PC-5GJSA <sub>1</sub>		PC-6GJSA <sub>1</sub>	
Temperature		T.C.	C.F.	T.C.	C.F.	T.C.	C.F.	T.C.	C.F.	T.C.	C.F.	T.C.	C.F.
Outdoor D.B.	Indoor W.B.		(T.I.)		(T.I.)		(T.I.)		(T.I.)		(T.I.)		(T.I.)
21°C (69.8°F)	16°C (60.8°F)	5.6	0.81	6.5	0.81	7.2	0.81	9.8	0.81	12.4	0.81	14.7	0.81
	18°C (64.4°F)	6.0	0.82	6.9	0.82	7.7	0.82	10.5	0.82	13.3	0.82	15.6	0.82
	19°C (66.2°F)	6.2	0.83	7.2	0.83	7.9	0.83	10.8	0.83	13.7	0.83	16.1	0.83
	19.4°C (67°F)	6.2	0.83	7.3	0.83	8.0	0.83	10.9	0.83	13.8	0.83	16.3	0.83
	20°C (68°F)	6.4	0.84	7.4	0.84	8.2	0.84	11.1	0.84	14.1	0.84	16.6	0.84
25°C (77°F)	22°C (71.6°F)	6.7	0.86	7.8	0.86	8.7	0.86	11.8	0.86	14.9	0.86	17.6	0.86
	16°C (60.8°F)	5.5	0.84	6.4	0.84	7.1	0.84	9.6	0.84	12.2	0.84	14.3	0.84
	18°C (64.4°F)	5.9	0.85	6.8	0.85	7.5	0.85	10.2	0.85	13.0	0.85	15.3	0.85
	19°C (66.2°F)	6.0	0.86	7.0	0.86	7.8	0.86	10.6	0.86	13.4	0.86	15.8	0.86
	19.4°C (67°F)	6.1	0.86	7.1	0.86	7.9	0.86	10.7	0.86	13.6	0.86	16.0	0.86
30°C (86°F)	20°C (68°F)	6.2	0.87	7.2	0.87	8.0	0.87	10.9	0.87	13.8	0.87	16.3	0.87
	22°C (71.6°F)	6.6	0.89	7.7	0.89	8.5	0.89	11.6	0.89	14.7	0.89	17.3	0.89
	16°C (60.8°F)	5.3	0.90	6.1	0.90	6.8	0.90	9.3	0.90	11.7	0.90	13.8	0.90
	18°C (64.4°F)	5.6	0.92	6.6	0.92	7.3	0.92	9.9	0.92	12.5	0.92	14.7	0.92
	19°C (66.2°F)	5.8	0.93	6.8	0.93	7.5	0.93	10.2	0.93	12.9	0.93	15.2	0.93
32.2°C (90°F)	19.4°C (67°F)	5.9	0.93	6.9	0.93	7.6	0.93	10.3	0.93	13.1	0.93	15.4	0.93
	20°C (68°F)	6.0	0.94	7.0	0.94	7.7	0.94	10.5	0.94	13.3	0.94	15.7	0.94
	22°C (71.6°F)	6.4	0.96	7.4	0.96	8.2	0.96	11.2	0.96	14.2	0.96	16.7	0.96
	16°C (60.8°F)	5.2	0.93	6.0	0.93	6.7	0.93	9.1	0.93	11.5	0.93	13.6	0.93
	18°C (64.4°F)	5.5	0.95	6.4	0.95	7.1	0.95	9.7	0.95	12.3	0.95	14.5	0.95
35°C (95°F)	19°C (66.2°F)	5.7	0.96	6.6	0.96	7.4	0.96	10.0	0.96	12.7	0.96	14.9	0.96
	19.4°C (67°F)	5.8	0.97	6.7	0.97	7.5	0.97	10.2	0.97	12.8	0.97	15.1	0.97
	20°C (68°F)	5.9	0.97	6.9	0.97	7.6	0.97	10.3	0.97	13.1	0.97	15.4	0.97
	22°C (71.6°F)	6.3	0.99	7.3	0.99	8.1	0.99	11.0	0.99	13.9	0.99	16.4	0.99
	16°C (60.8°F)	5.1	0.96	5.9	0.96	6.5	0.96	8.9	0.96	11.2	0.96	13.2	0.96
40°C (104°F)	18°C (64.4°F)	5.4	0.99	6.3	0.99	7.0	0.99	9.5	0.99	12.0	0.99	14.1	0.99
	19°C (66.2°F)	5.6	1.00	6.5	1.00	7.2	1.00	9.8	1.00	12.4	1.00	14.6	1.00
	19.4°C (67°F)	5.7	1.00	6.6	1.00	7.3	1.00	9.9	1.00	12.6	1.00	14.8	1.00
	20°C (68°F)	5.8	1.01	6.7	1.01	7.4	1.01	10.1	1.01	12.8	1.01	15.1	1.01
	22°C (71.6°F)	6.2	1.04	7.2	1.04	7.9	1.04	10.8	1.04	13.6	1.04	16.1	1.04
40.6°C (105°F)	16°C (60.8°F)	4.9	1.03	5.6	1.03	6.2	1.03	8.5	1.03	10.7	1.03	12.6	1.03
	18°C (64.4°F)	5.2	1.06	6.0	1.06	6.7	1.06	9.1	1.06	11.5	1.06	13.5	1.06
	19°C (66.2°F)	5.4	1.07	6.2	1.07	6.9	1.07	9.4	1.07	11.9	1.07	14.0	1.07
	19.4°C (67°F)	5.4	1.08	6.3	1.08	7.0	1.08	9.5	1.08	12.0	1.08	14.2	1.08
	20°C (68°F)	5.5	1.08	6.4	1.08	7.1	1.08	9.7	1.08	12.3	1.08	14.4	1.08
45°C (113°F)	22°C (71.6°F)	5.9	1.11	6.9	1.11	7.6	1.11	10.3	1.11	13.1	1.11	15.4	1.11
	16°C (60.8°F)	4.8	1.04	5.6	1.04	6.2	1.04	8.4	1.04	10.7	1.04	12.6	1.04
	18°C (64.4°F)	5.2	1.06	6.0	1.06	6.6	1.06	9.0	1.06	11.4	1.06	13.4	1.06
	19°C (66.2°F)	5.3	1.08	6.2	1.08	6.9	1.08	9.3	1.08	11.8	1.08	13.9	1.08
	19.4°C (67°F)	5.4	1.08	6.3	1.08	6.9	1.08	9.5	1.08	12.0	1.08	14.1	1.08
46°C (115°F)	20°C (68°F)	5.5	1.09	6.4	1.09	7.1	1.09	9.6	1.09	12.2	1.09	14.4	1.09
	22°C (71.6°F)	5.9	1.12	6.8	1.12	7.6	1.12	10.3	1.12	13.0	1.12	15.3	1.12
	16°C (60.8°F)	4.6	1.10	5.4	1.10	5.9	1.10	8.1	1.10	10.2	1.10	12.0	1.10
	18°C (64.4°F)	4.9	1.12	5.7	1.12	6.4	1.12	8.6	1.12	10.9	1.12	12.9	1.12
	19°C (66.2°F)	5.1	1.14	5.9	1.14	6.6	1.14	8.9	1.14	11.3	1.14	13.3	1.14
50°C (69.8°F)	19.4°C (67°F)	5.2	1.15	6.0	1.15	6.7	1.15	9.1	1.15	11.5	1.15	13.5	1.15
	20°C (68°F)	5.3	1.16	6.1	1.16	6.8	1.16	9.3	1.16	11.7	1.16	13.8	1.16
	22°C (71.6°F)	5.7	1.20	6.6	1.20	7.3	1.20	9.9	1.20	12.5	1.20	14.7	1.20
	16°C (60.8°F)	4.6	1.11	5.3	1.11	5.9	1.11	8.0	1.11	10.1	1.11	11.9	1.11
	18°C (64.4°F)	4.9	1.14	5.7	1.14	6.3	1.14	8.6	1.14	10.8	1.14	12.7	1.14
52°C (125.5°F)	19°C (66.2°F)	5.1	1.15	5.9	1.15	6.5	1.15	8.9	1.15	11.2	1.15	13.1	1.15
	19.4°C (67°F)	5.1	1.16	6.0	1.16	6.6	1.16	9.0	1.16	11.3	1.16	13.3	1.16
	20°C (68°F)	5.2	1.17	6.1	1.17	6.7	1.17	9.2	1.17	11.5	1.17	13.5	1.17
	22°C (71.6°F)	5.6	1.21	6.5	1.21	7.2	1.21	9.8	1.21	12.4	1.21	14.6	1.21
	16°C (60.8°F)	4.4	1.16	5.1	1.16	5.6	1.16	7.6	1.16	9.1	1.16	10.7	1.16
52°C (125.5°F)	18°C (64.4°F)	4.7	1.19	5.4	1.19	6.0	1.19	8.2	1.19	9.8	1.19	11.5	1.19
	19°C (66.2°F)	4.9	1.21	5.6	1.21	6.2	1.21	8.5	1.21	10.2	1.21	12.0	1.21
	19.4°C (67°F)	4.9	1.22	5.7	1.22	6.3	1.22	8.6	1.22	10.3	1.22	12.1	1.22
	20°C (68°F)	5.0	1.23	5.8	1.23	6.5	1.23	8.8	1.23	10.5	1.23	12.4	1.23
	22°C (71.6°F)	5.4	1.28	6.3	1.28	6.9	1.28	9.4	1.28	10.9	1.28	12.8	1.28
52°C (125.5°F)	16°C (60.8°F)	4.3	1.19	4.9	1.19	5.5	1.19	7.4	1.19	8.1	1.19	9.5	1.19
	18°C (64.4°F)	4.6	1.22	5.3	1.22	5.9	1.22	8.0	1.22	8.7	1.22	10.2	1.22
	19°C (66.2°F)	4.7	1.24	5.5	1.24	6.1	1.24	8.3	1.24	9.0	1.24	10.6	1.24
	19.4°C (67°F)	4.8	1.25	5.6	1.25	6.2	1.25	8.4	1.25	9.1	1.25	10.7	1.25
	20°C (68°F)	4.9	1.26	5.7	1.26	6.3	1.26	8.6	1.26	9.3	1.26	11.0	1.26
52°C (125.5°F)	22°C (71.6°F)	5.3	1.31	6.1	1.31	6.8	1.31	9.2	1.31	9.7	1.31	11.4	1.31

## Cooling Capacity Correction Factors 50Hz

Service Ref.	Refrigerant piping length (one way)									
	5m(16ft)	10m(33ft)	15m(49ft)	20m(66ft)	25m(82ft)	30m(98ft)	35m(115ft)	40m(131ft)	45m(148ft)	50m(164ft)
PC-2GJA <sub>1</sub>	1.0	0.985	0.975	0.964	0.954	0.944	—	—	—	—
PC-2.5GJA <sub>1</sub>	1.0	0.983	0.972	0.961	0.951	0.940	—	—	—	—
PC-3GJA <sub>1</sub>	1.0	0.978	0.962	0.948	0.934	0.921	—	—	—	—
PC-4GJSA <sub>1</sub>	1.0	0.984	0.974	0.964	0.954	0.944	0.935	0.926	—	—
PC-5GJSA <sub>1</sub>	1.0	0.978	0.962	0.948	0.934	0.921	0.908	0.896	0.884	0.875
PC-6GJSA <sub>1</sub>	1.0	0.970	0.950	0.931	0.912	0.896	0.880	0.864	0.850	0.840

## Cooling capacity

60Hz

Service Ref.			PC-2GJA <sub>1</sub>		PC-2.5GJA <sub>1</sub>		PC-3GJA <sub>1</sub>		PC-4GJA <sub>1</sub>		PC-5GJA <sub>1</sub>		PC-6GJA <sub>1</sub>	
Temperature			T.C.	C.F.	T.C.	C.F.	T.C.	C.F.	T.C.	C.F.	T.C.	C.F.	T.C.	C.F.
Outdoor D.B.	Indoor W.B.			(T.I.)		(T.I.)		(T.I.)		(T.I.)		(T.I.)		(T.I.)
21°C (69.8°F)	16°C	(60.8°F)	5.4	0.81	7.0	0.81	7.8	0.81	10.8	0.81	13.6	0.81	15.3	0.81
	18°C	(64.4°F)	5.8	0.82	7.5	0.82	8.3	0.82	11.5	0.82	14.4	0.82	16.2	0.82
	19°C	(66.2°F)	6.0	0.83	7.7	0.83	8.6	0.83	11.9	0.83	14.9	0.83	16.8	0.83
	19.4°C	(67°F)	6.0	0.83	7.8	0.83	8.7	0.83	12.0	0.83	15.1	0.83	17.0	0.83
	20°C	(68°F)	6.1	0.84	7.9	0.84	8.9	0.84	12.3	0.84	15.3	0.84	17.3	0.84
25°C (77°F)	22°C	(71.6°F)	6.5	0.86	8.4	0.86	9.4	0.86	13.0	0.86	16.2	0.86	18.3	0.86
	16°C	(60.8°F)	5.3	0.84	6.9	0.84	7.7	0.84	10.6	0.84	13.2	0.84	14.9	0.84
	18°C	(64.4°F)	5.6	0.85	7.3	0.85	8.2	0.85	11.3	0.85	14.1	0.85	15.9	0.85
	19°C	(66.2°F)	5.8	0.86	7.6	0.86	8.4	0.86	11.7	0.86	14.6	0.86	16.4	0.86
	19.4°C	(67°F)	5.9	0.86	7.7	0.86	8.5	0.86	11.8	0.86	14.8	0.86	16.6	0.86
30°C (86°F)	20°C	(68°F)	6.0	0.87	7.8	0.87	8.7	0.87	12.0	0.87	15.0	0.87	16.9	0.87
	22°C	(71.6°F)	6.4	0.89	8.3	0.89	9.2	0.89	12.8	0.89	16.0	0.89	18.0	0.89
	16°C	(60.8°F)	5.1	0.90	6.6	0.90	7.4	0.90	10.2	0.90	12.8	0.90	14.4	0.90
	18°C	(64.4°F)	5.4	0.92	7.1	0.92	7.9	0.92	10.9	0.92	13.6	0.92	15.3	0.92
	19°C	(66.2°F)	5.6	0.93	7.3	0.93	8.1	0.93	11.2	0.93	14.0	0.93	15.8	0.93
32.2°C (90°F)	19.4°C	(67°F)	5.7	0.93	7.4	0.93	8.2	0.93	11.4	0.93	14.2	0.93	16.0	0.93
	20°C	(68°F)	5.8	0.94	7.5	0.94	8.4	0.94	11.6	0.94	14.5	0.94	16.3	0.94
	22°C	(71.6°F)	6.2	0.96	8.0	0.96	8.9	0.96	12.3	0.96	15.4	0.96	17.4	0.96
	16°C	(60.8°F)	5.0	0.93	6.5	0.93	7.2	0.93	10.0	0.93	12.5	0.93	14.1	0.93
	18°C	(64.4°F)	5.3	0.95	6.9	0.95	7.7	0.95	10.7	0.95	13.4	0.95	15.1	0.95
35°C (95°F)	19°C	(66.2°F)	5.5	0.96	7.2	0.96	8.0	0.96	11.0	0.96	13.8	0.96	15.5	0.96
	19.4°C	(67°F)	5.6	0.97	7.3	0.97	8.1	0.97	11.2	0.97	14.0	0.97	15.7	0.97
	20°C	(68°F)	5.7	0.97	7.4	0.97	8.2	0.97	11.4	0.97	14.3	0.97	16.0	0.97
	22°C	(71.6°F)	6.1	0.99	7.9	0.99	8.8	0.99	12.1	0.99	15.2	0.99	17.1	0.99
	16°C	(60.8°F)	4.9	0.96	6.3	0.96	7.1	0.96	9.8	0.96	12.2	0.96	13.8	0.96
40°C (104°F)	18°C	(64.4°F)	5.2	0.99	6.8	0.99	7.5	0.99	10.5	0.99	13.1	0.99	14.7	0.99
	19°C	(66.2°F)	5.4	1.00	7.0	1.00	7.8	1.00	10.8	1.00	13.5	1.00	15.2	1.00
	19.4°C	(67°F)	5.5	1.00	7.1	1.00	7.9	1.00	10.9	1.00	13.7	1.00	15.4	1.00
	20°C	(68°F)	5.6	1.01	7.2	1.01	8.1	1.01	11.1	1.01	13.9	1.01	15.7	1.01
	22°C	(71.6°F)	5.9	1.04	7.7	1.04	8.6	1.04	11.9	1.04	14.9	1.04	16.7	1.04
40.6°C (105°F)	16°C	(60.8°F)	4.7	1.03	6.1	1.03	6.8	1.03	9.4	1.03	11.7	1.03	13.2	1.03
	18°C	(64.4°F)	5.0	1.06	6.5	1.06	7.2	1.06	10.0	1.06	12.5	1.06	14.1	1.06
	19°C	(66.2°F)	5.2	1.07	6.7	1.07	7.5	1.07	10.3	1.07	12.9	1.07	14.6	1.07
	19.4°C	(67°F)	5.2	1.08	6.8	1.08	7.6	1.08	10.5	1.08	13.1	1.08	14.7	1.08
	20°C	(68°F)	5.3	1.08	6.9	1.08	7.7	1.08	10.7	1.08	13.4	1.08	15.0	1.08
45°C (113°F)	22°C	(71.6°F)	5.7	1.11	7.4	1.11	8.2	1.11	11.4	1.11	14.3	1.11	16.0	1.11
	16°C	(60.8°F)	4.7	1.04	6.0	1.04	6.7	1.04	9.3	1.04	11.6	1.04	13.1	1.04
	18°C	(64.4°F)	5.0	1.06	6.4	1.06	7.2	1.06	9.9	1.06	12.4	1.06	14.0	1.06
	19°C	(66.2°F)	5.1	1.08	6.7	1.08	7.4	1.08	10.3	1.08	12.9	1.08	14.5	1.08
	19.4°C	(67°F)	5.2	1.08	6.8	1.08	7.5	1.08	10.4	1.08	13.0	1.08	14.7	1.08
46°C (115°F)	20°C	(68°F)	5.3	1.09	6.9	1.09	7.7	1.09	10.6	1.09	13.3	1.09	15.0	1.09
	22°C	(71.6°F)	5.7	1.12	7.4	1.12	8.2	1.12	11.3	1.12	14.2	1.12	16.0	1.12
	16°C	(60.8°F)	4.4	1.10	5.8	1.10	6.4	1.10	8.9	1.10	11.1	1.10	12.5	1.10
	18°C	(64.4°F)	4.8	1.12	6.2	1.12	6.9	1.12	9.5	1.12	11.9	1.12	13.4	1.12
	19°C	(66.2°F)	4.9	1.14	6.4	1.14	7.1	1.14	9.9	1.14	12.3	1.14	13.9	1.14
50°C (69.8°F)	19.4°C	(67°F)	5.0	1.15	6.5	1.15	7.2	1.15	10.0	1.15	12.5	1.15	14.1	1.15
	20°C	(68°F)	5.1	1.16	6.6	1.16	7.4	1.16	10.2	1.16	12.7	1.16	14.4	1.16
	22°C	(71.6°F)	5.5	1.20	7.1	1.20	7.9	1.20	10.9	1.20	13.6	1.20	15.3	1.20
	16°C	(60.8°F)	4.4	1.11	5.7	1.11	6.4	1.11	8.8	1.11	11.0	1.11	12.4	1.11
	18°C	(64.4°F)	4.7	1.14	6.1	1.14	6.8	1.14	9.4	1.14	11.8	1.14	13.3	1.14
52°C (125.5°F)	19°C	(66.2°F)	4.9	1.15	6.3	1.15	7.1	1.15	9.8	1.15	12.1	1.15	13.7	1.15
	19.4°C	(67°F)	4.9	1.16	6.4	1.16	7.1	1.16	9.9	1.16	12.3	1.16	13.8	1.16
	20°C	(68°F)	5.0	1.17	6.5	1.17	7.3	1.17	10.1	1.17	12.5	1.17	14.1	1.17
	22°C	(71.6°F)	5.4	1.21	7.0	1.21	7.8	1.21	10.8	1.21	13.5	1.21	15.2	1.21
	16°C	(60.8°F)	4.2	1.16	5.5	1.16	6.1	1.16	8.4	1.16	9.9	1.16	11.2	1.16
52°C (125.5°F)	18°C	(64.4°F)	4.5	1.19	5.9	1.19	6.5	1.19	9.0	1.19	10.7	1.19	12.0	1.19
	19°C	(66.2°F)	4.7	1.21	6.1	1.21	6.8	1.21	9.4	1.21	11.1	1.21	12.4	1.21
	19.4°C	(67°F)	4.7	1.22	6.2	1.22	6.9	1.22	9.5	1.22	11.2	1.22	12.6	1.22
	20°C	(68°F)	4.8	1.23	6.3	1.23	7.0	1.23	9.7	1.23	11.4	1.23	12.9	1.23
	22°C	(71.6°F)	5.2	1.28	6.7	1.28	7.5	1.28	10.4	1.28	11.8	1.28	13.3	1.28
52°C (125.5°F)	16°C	(60.8°F)	4.1	1.19	5.3	1.19	5.9	1.19	8.2	1.19	8.8	1.19	9.9	1.19
	18°C	(64.4°F)	4.4	1.22	5.7	1.22	6.4	1.22	8.8	1.22	9.4	1.22	10.6	1.22
	19°C	(66.2°F)	4.6	1.24	5.9	1.24	6.6	1.24	9.2	1.24	9.8	1.24	11.0	1.24
	19.4°C	(67°F)	4.6	1.25	6.0	1.25	6.7	1.25	9.3	1.25	9.9	1.25	11.2	1.25
	20°C	(68°F)	4.7	1.26	6.1	1.26	6.9	1.26	9.5	1.26	10.1	1.26	11.4	1.26
52°C (125.5°F)	22°C	(71.6°F)	5.1	1.31	6.6	1.31	7.3	1.31	10.2	1.31	10.5	1.31	11.8	1.31

Notes: 1. T.C. : Total capacity (x kW)---Btu/h=(W)x0.86

C.F. (T.I.) : Correction factors of Total input + Outdoor unit input

2. (°F)=32+9/5(°C)

3. Guaranteed operating range (cooling): { Lower limit---Indoor 21°C(70°F) D.B., 15.5°C(60°F) W.B., Outdoor 21°C(70°F) D.B. }  
Upper limit---Indoor 35°C(95°F) D.B., 22.5°C(72.5°F) W.B., Outdoor 52°C(125.5°F) D.B. }

## Cooling Capacity Correction Factors

60Hz

Service Ref.	Refrigerant piping length (one way)									
	5m(16ft)	10m(33ft)	15m(49ft)	20m(66ft)	25m(82ft)	30m(98ft)	35m(115ft)	40m(131ft)	45m(148ft)	50m(164ft)
PC-2GJA <sub>1</sub>	1.0	0.985	0.975	0.964	0.954	0.944	—	—	—	—
PC-2.5GJA <sub>1</sub>	1.0	0.978	0.963	0.948	0.934	0.921	—	—	—	—
PC-3GJA <sub>1</sub>	1.0	0.971	0.950	0.931	0.913	0.896	—	—	—	—
PC-4GJA <sub>1</sub>	1.0	0.980	0.966	0.952	0.939	0.926	0.914	0.902	—	—
PC-5GJA <sub>1</sub>	1.0	0.971	0.950	0.931	0.913	0.896	0.880	0.864	0.850	0.840
PC-6GJA <sub>1</sub>	1.0	0.960	0.933	0.908	0.885	0.864	0.845	0.828	0.812	0.800

## 2. STANDARD OPERATION DATA

Service Ref.			PC-2GJA <sub>1</sub>		PC-2.5GJA <sub>1</sub>		PC-3GJA <sub>1</sub>		PC-4GJA <sub>1</sub>		PC-5GJA <sub>1</sub>		PC-6GJA <sub>1</sub>	
MODE			Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling
Total	Capacity	W	5,600	4,300	6,500	6,200	7,200	6,500	9,800	9,300	12,400	11,600	14,600	13,400
	Input	kW	2.54	3.12	2.58	3.60	3.30	4.25	3.43	5.17	4.76	6.94	5.31	7.54
Electrical circuit	Indoor unit Service Ref.		PC-2GJA <sub>1</sub>		PC-2.5GJA <sub>1</sub>		PC-3GJA <sub>1</sub>		PC-4GJA <sub>1</sub>		PC-5GJA <sub>1</sub>		PC-6GJA <sub>1</sub>	
	phase, Hz		1,50	1,60	1,50	1,60	1,50	1,60	1,50	1,60	1,50	1,60	1,50	1,60
	Volts	V	220	220	220	220	220	220	220	220	220	220	220	220
	Amperes	A	0.38	0.61	0.51	0.70	0.51	0.70	0.68	0.95	0.96	1.20	0.96	1.20
	Outdoor unit Service Ref.		PU-2VJA <sub>2</sub>	PU-2NJA <sub>1</sub>	PU-2.5VJA <sub>2</sub>	PU-2.5NJA <sub>1</sub>	PU-3VJA <sub>2</sub>	PU-3NJA <sub>1</sub>	PU-4YJSA <sub>3</sub>	PU-4TJSA <sub>2</sub>	PU-5YJSA	PU-5TJSA	PU-6YJSA	PU-6TJSA
	phase, Hz		1,50	1,60	1,50	1,60	1,50	1,60	3,50	3,60	3,50	3,60	3,50	3,60
	Volts	V	220	220	220	220	220	220	380	220	380	220	380	220
	Amperes	A	11.3	13.6	11.4	15.8	15.1	20.9	5.7	14.0	8.15	19.61	8.63	21.45
Refrigerant circuit	Discharge pressure	MPa.G (kgf/cm <sup>2</sup> *G)	1.93 (19.7)	2.49 (25.4)	1.96 (20.0)	2.68 (27.3)	1.96 (20.0)	2.54 (25.9)	1.80 (18.3)	2.40 (24.4)	1.83 (18.7)	2.41 (24.6)	1.96 (20.0)	2.41 (24.6)
	Suction pressure	MPa.G (kgf/cm <sup>2</sup> *G)	0.44 (4.5)	0.53 (5.4)	0.5 (5.1)	0.52 (5.3)	0.44 (4.5)	0.44 (4.5)	0.51 (5.2)	0.51 (5.2)	0.46 (4.7)	0.43 (4.4)	0.41 (4.2)	0.42 (4.3)
	Discharge temperature	°C	68.6	77.7	72.3	94.3	63.9	82.0	67.5	88.4	72.9	94.8	75.4	94.8
	Condensing temperature	°C	51.6	60.5	52.4	57.6	52.3	61.6	48.3	54.5	48.8	60.1	51.1	60.3
	Suction temperature	°C	3.3	8.3	8.6	10.2	3.7	3.6	7.3	6.0	3.1	1.7	2.3	1.6
	Ref. pipe length	m	5	5	5	5	5	5	5	5	5	5	5	5
Indoor side	Intake air temperature	D.B.°C	27	29	27	29	27	29	27	29	27	29	27	29
		W.B.°C	19	19	19	19	19	19	19	19	19	19	19	19
	Discharge air temperature	D.B.°C	9.7	13.8	12.0	15.3	10.7	12.8	10.5	11.7	13.7	14.9	12.2	12.6
Outdoor side	Intake air temperature	D.B.°C	35	46	35	46	35	46	35	46	35	46	35	46
		W.B.°C	24	24	24	24	24	24	24	24	24	24	24	24

The unit of pressure has been changed to MPa based on SI(International System of unit) in accordance with I.S.O.(International Organization for Standardization).

The conversion factor is : 1(MPa\*G)=10.2(kgf / cm<sup>2</sup>\*G)

## 3. OUTLET AIR SPEED AND COVERAGE RANGE

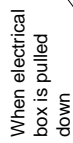
Frequency	Configuration		Ceiling suspended					
	Service Ref.		PC-2GJA <sub>1</sub>	PC-2.5GJA <sub>1</sub>	PC-3GJA <sub>1</sub>	PC-4GJA <sub>1</sub>	PC-5GJA <sub>1</sub>	PC-6GJA <sub>1</sub>
50Hz	Airflow	m <sup>3</sup> /min	13	18	18	25	34	34
	Air speed	m/sec.	3.7	3.8	3.8	4.1	4.38	4.38
	Coverage range	m	8.8	10.4	10.4	12.6	15.2	15.2
		ft	29	34.5	34.5	41.6	50.0	50.0
60Hz	Airflow	m <sup>3</sup> /min	13	18	18	25	34	34
	Air speed	m/sec.	3.7	3.8	3.8	4.1	4.38	4.38
	Coverage range	m	8.8	10.4	10.4	12.6	15.2	15.2
		ft	29	34.5	34.5	41.6	50.0	50.0

The air coverage range is the value up to the position where the air speed is 0.25 m/sec. when air is blown out horizontally from the unit at Hi notch position.

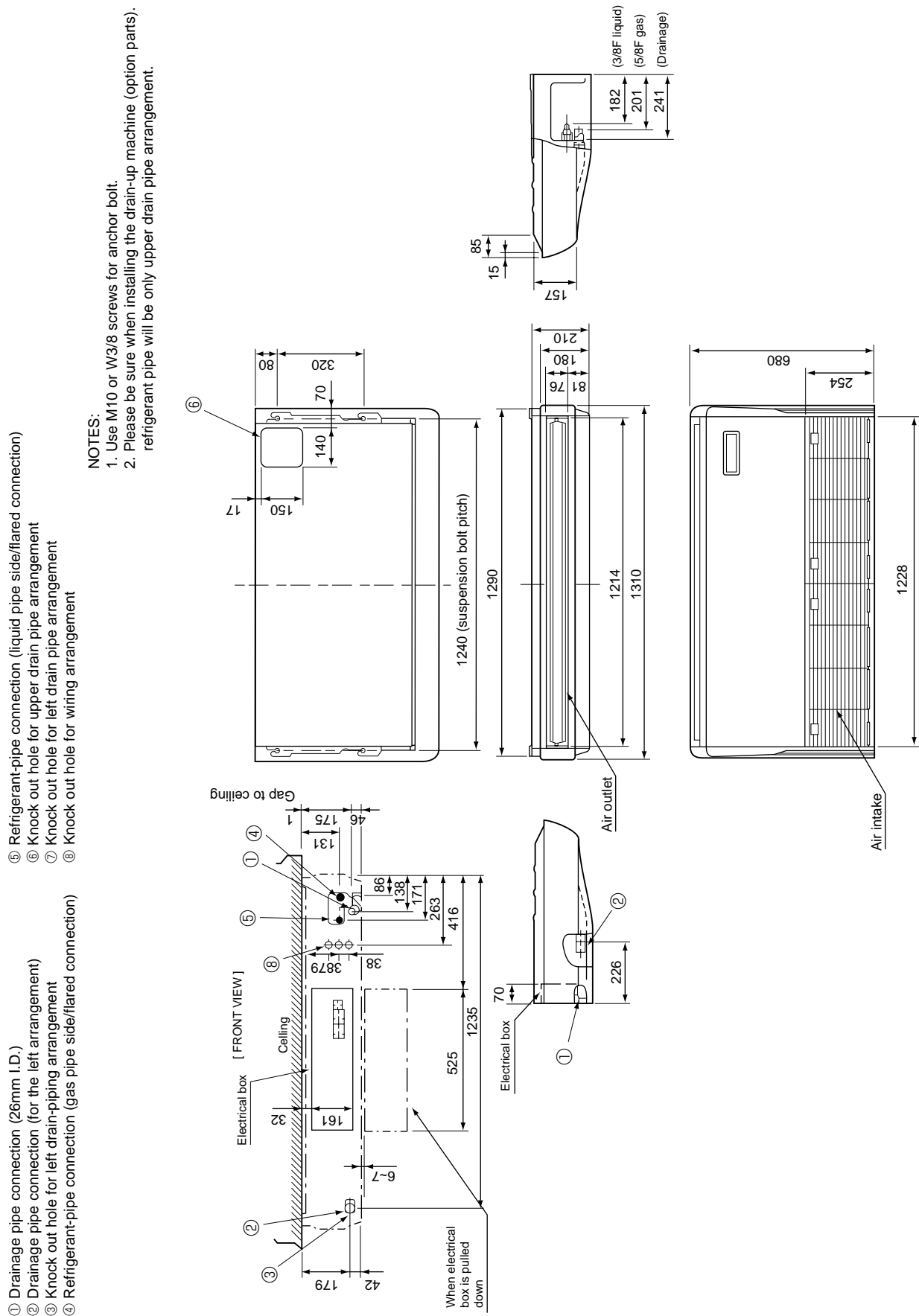
The coverage range should be used as a general guideline since it varies according to the size of the room and furniture inside the room.

- ① Drainage pipe connection (26mm I.D.)
- ② Drainage pipe connection (for the left arrangement)
- ③ Knock out hole for left drain-piping arrangement
- ④ Refrigerant-pipe connection (gas pipe side/flared connection)
- ⑤ Refrigerant-pipe connection (liquid pipe side/flared connection)
- ⑥ Knock out hole for upper drain pipe arrangement
- ⑦ Knock out hole for left drain pipe arrangement
- ⑧ Knock out hole for wiring arrangement

1. Use M10 or W3/8 screws for anchor bolt.
2. Please be sure when installing the drain-up machine (option parts).  
refrigerant pipe will be only upper drain pipe arrangement.



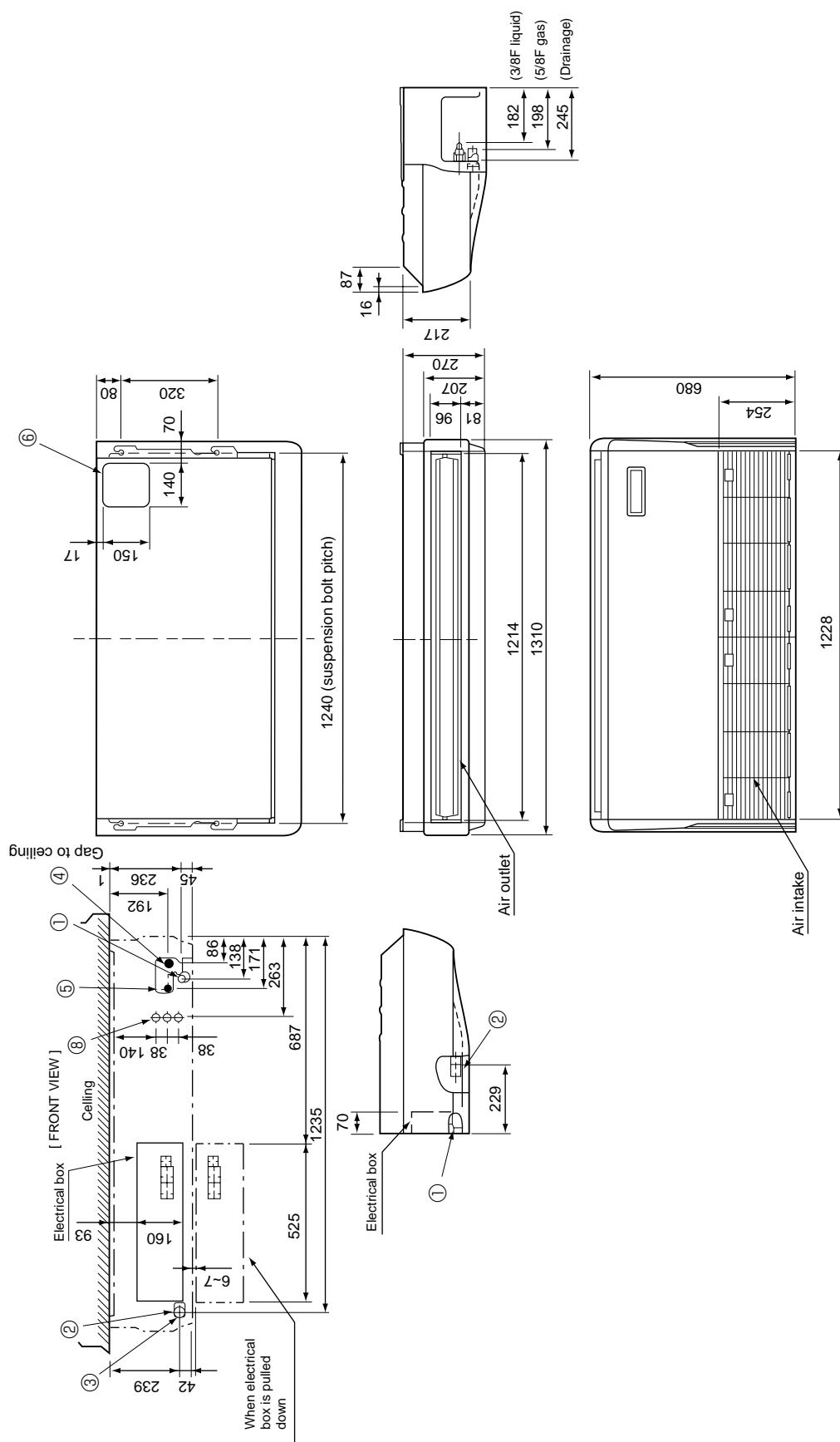
# PC-2.5GJA<sub>1</sub> PC-3GJA<sub>1</sub>



- ① Drainage pipe connection (26mm I.D.)
- ② Drainage pipe connection (for the left arrangement)
- ③ Knock out hole for left drain-piping arrangement
- ④ Refrigerant-pipe connection (gas pipe side/flared connection)

NOTES:

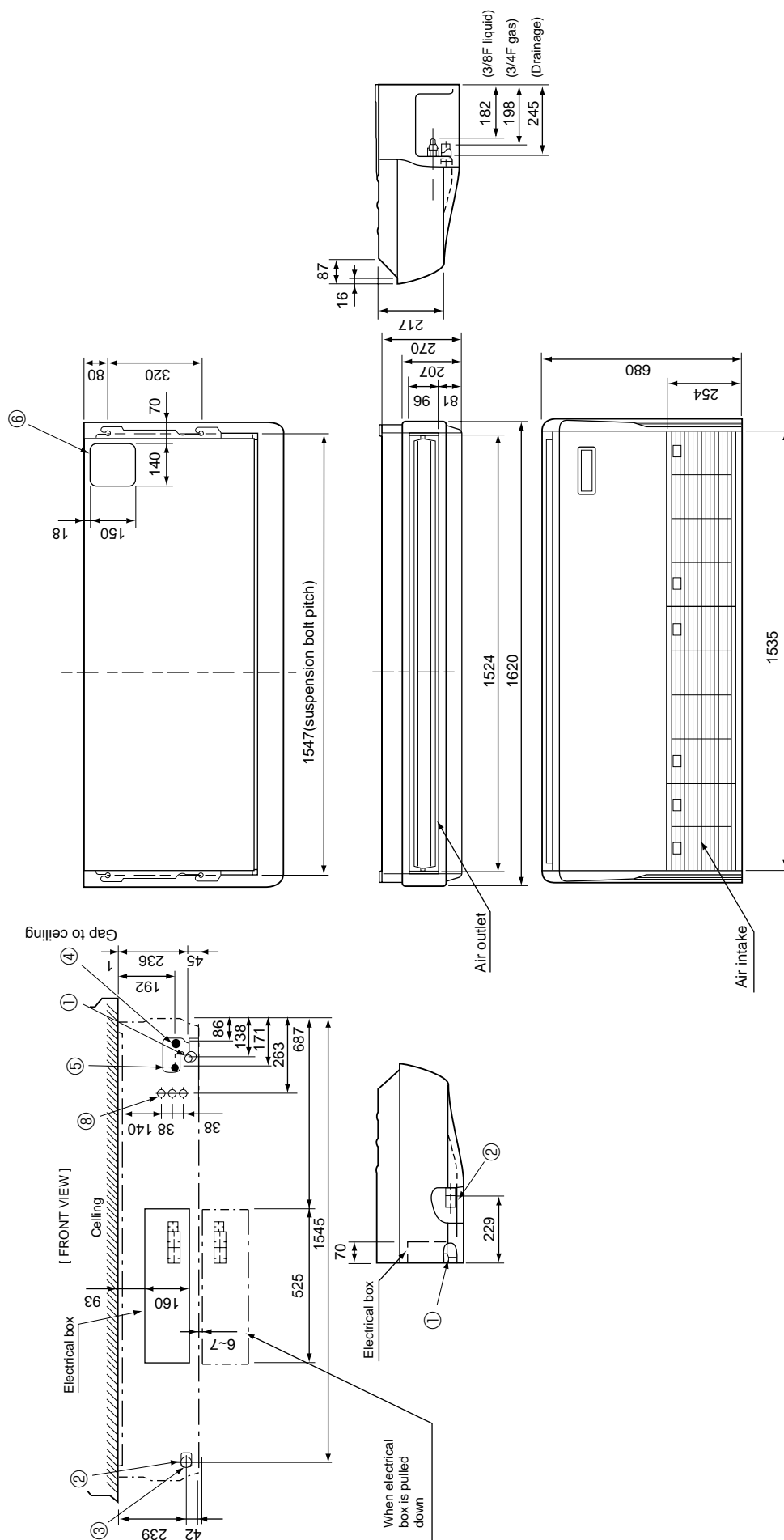
1. Use M10 or W3/8 screws for anchor bolt.
2. Please be sure when installing the drain-up machine (option parts).  
refrigerant pipe will be only upper drain pipe arrangement.



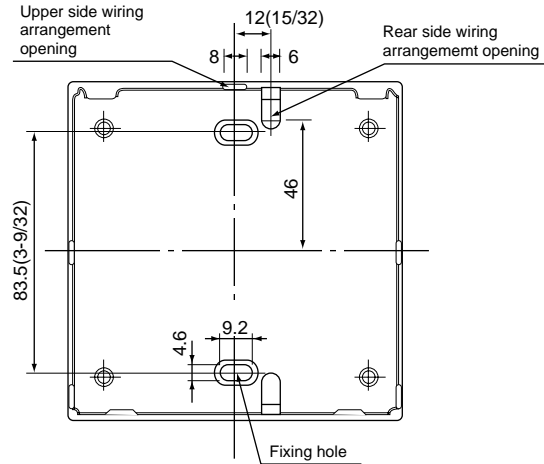
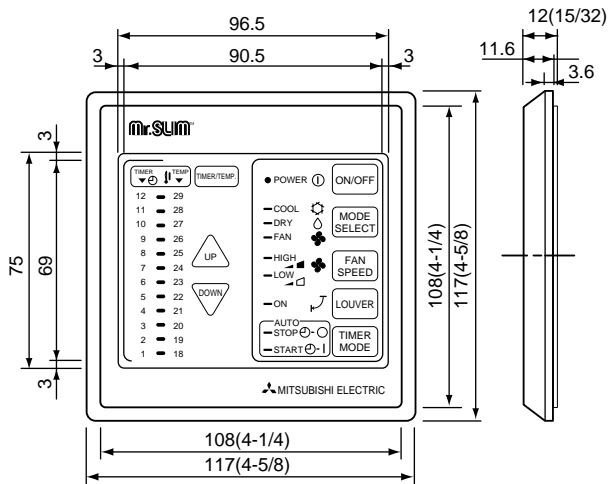
# PC-5GJSA<sub>1</sub> PC-6GJSA<sub>1</sub>

- ① Drainage pipe connection (26mm I.D.)
- ② Drainage pipe connection (for the left arrangement)
- ③ Knock out hole for left drain-piping arrangement
- ④ Refrigerant-pipe connection (gas pipe side/flared connection)
- ⑤ Refrigerant-pipe connection (liquid pipe side/flared connection)
- ⑥ Knock out hole for upper drain pipe arrangement
- ⑦ Knock out hole for left drain pipe arrangement
- ⑧ Knock out hole for wiring arrangement

NOTES:  
1. Use M10 or W3/8 screws for anchor bolt.  
2. Please be sure when installing the drain-up machine (option parts).  
refrigerant pipe will be only upper drain pipe arrangement.

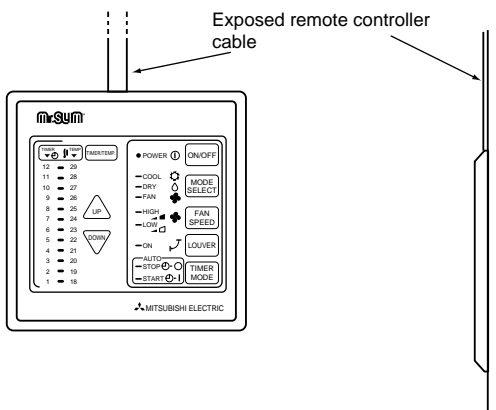


## 2.REMOTE CONTROLLER



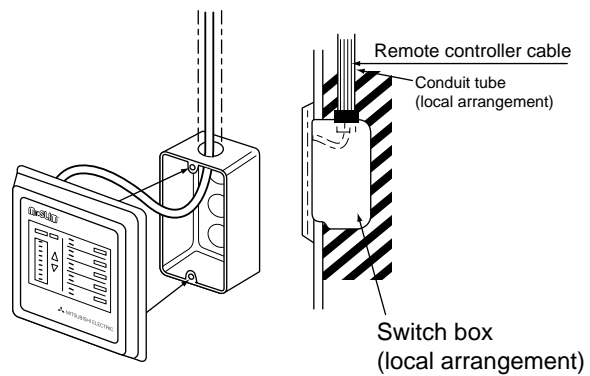
### Remote controller cable installation

#### ●For exposed remote controller cable installation



- Cable connection is only from the top.  
(right, left and bottom not possible)

#### ●For recessed remote controller cable installation



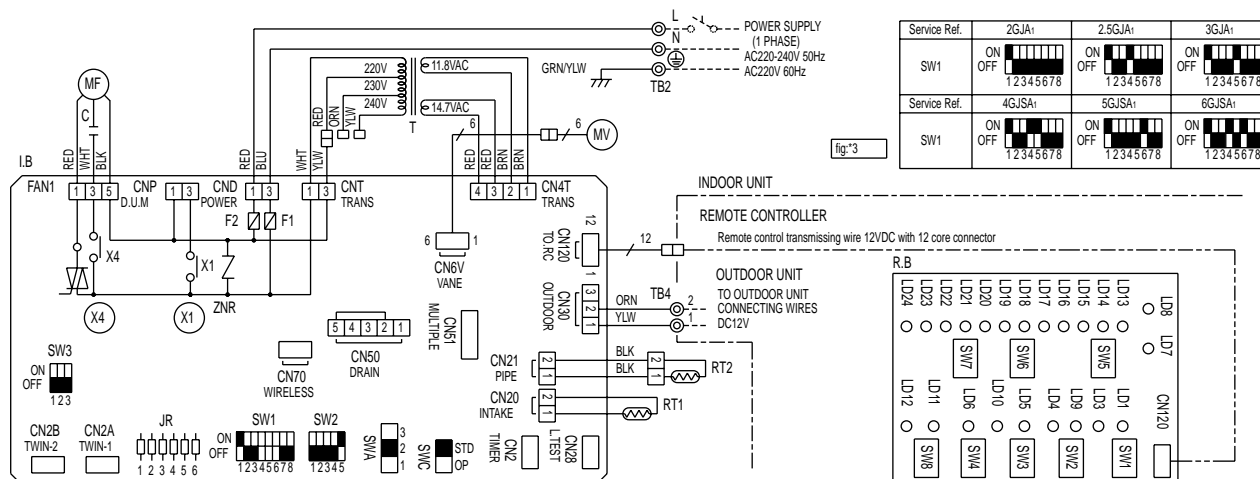
Set screw (match with switch box),  
local arrangement.

Note: The cable for the remote controller is 5m (16ft) and 12-core with connection O.D.  $\phi$  5.8.



PC-2GJA<sub>1</sub> / PC-2.5GJA<sub>1</sub> / PC-3GJA<sub>1</sub> / PC-4GJA<sub>1</sub> / PC-5GJA<sub>1</sub> / PC-6GJA<sub>1</sub>

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
C	FAN MOTOR CAPACITOR	LD1<R.B>	RUN INDICATOR LED	SWC<I.B>	OPTION SWITCH	TB4	INDOOR / OUTDOOR CONNECT- ING WIRE TERMINAL BLOCK
CN120<I.B>	REMOTE CONTROLLER TRANS- MISSION WIRE CONNECTOR	LD3<R.B>	COOLING INDICATOR LED	SW1<I.B>	FUNCTION SWITCH	RT1	ROOM TEMPERATURE THERMISTOR (0°C/15kΩ, 25°C/5.4kΩ DETECT)
CN2<I.B>	TIMER ADAPTOR CONNECTOR	LD4<R.B>	FAN MODE INDICATOR LED	SW2<I.B>	UNIT SWITCH	RT2	INDOOR COIL THERMISTOR (0°C/15kΩ, 25°C/5.4kΩ DETECT)
CN2A<I.B>	TRANSMISSION WIRE No.1 CONNECTOR	LD5<R.B>	FAN HIGH INDICATOR LED	SW3<I.B>	EMERGENCY OPERATION SWITCH	X1<I.B>	DRAIN-UP MACHINE RELAY
CN2B<I.B>	TRANSMISSION WIRE No.2 CONNECTOR	LD6<R.B>	LOUVER RUN INDICATOR LED	SW1<R.B>	ON / OFF SWITCH	X4<I.B>	FAN MOTOR RELAY
CNP<I.B>	DRAIN-UP MACHINE CONNECTOR	LD7<R.B>	INDICATOR MODE TEMPERATURE LED	SW2<R.B>	OPERATION MODE SWITCH	ZNR	VARISTOR
CN28<I.B>	TIME SHORTENING CONNECTOR	LD8<R.B>	INDICATOR MODE TIMER LED	SW3<R.B>	FAN HIGH/LOW SWITCH	DP	OPTION DRAIN-UP MACHINE
CN50<I.B>	DRAIN SENSOR CONNECTOR	LD9<R.B>	DRY INDICATOR LED	SW4<R.B>	LOUVER ON / OFF SWITCH	DS	OPTION DRAIN SENSOR
CN51<I.B>	MULTIPLE CONNECTOR	LD10<R.B>	FAN LOW INDICATOR LED	SW5<R.B>	INDICATOR SWITCH	W/B	OPTION WIRELESS REMOTE CONTROLLER BOARD
CN120<R.B>	REMOTE CONTROLLER TRANS- MISSION WIRE CONNECTOR	LD11<R.B>	OFF TIMER INDICATOR LED	SW6<R.B>	TEMPERATURE / TIMER SETTING UP SWITCH	CNB(W.B)	INDOOR BOARD CONNECTOR
F1,2<I.B>	FUSE (6.3A 250V)	LD12<R.B>	ON TIMER INDICATOR LED	SW7<R.B>	TEMPERATURE / TIMER SETTING DOWN SWITCH	LED1(W.B)	RUN INDICATOR LED
CN70<I.B>	WIRELESS REMOTE CONT- ROLLER CONNECTOR	LD13-24<R.B>	TEMPERATURE / TIMER RE- MAINING TIME INDICATOR LED	SW8<R.B>	TIMER CONTINUOUS ON / OFF SWITCH	SW2(W.B)	COOL OPERATION SWITCH
I.B	INDOOR CONTROLLER BOARD	MF	FAN MOTOR	R.B	REMOTE CONTROLLER BOARD	RU(W.B)	BEAM RECIEVE UNIT
		MV	VANE MOTOR	T	TRANSFORMER		
		SWA<I.B>	HIGH CELING TYPE SWITCH	TB2	POWER SUPPLY TERMINAL BLOCK		
		JR<I.B>	FUNCTION SELECTOR				
			JUMPER RESISTORS				



## [Emergency operation procedure]

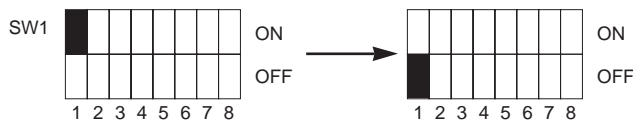
- Turn on outdoor unit side circuit breaker, then indoor unit side circuit breaker in this order.
- During emergency operation, indoor fan runs at high speed but automatic vane remains stop.
- If vane closed, open the vane by hand slowly.
- Thermostat will not function.
- Emergency cooling should be limited to 10 hours maximum (The Indoor unit heat exchanger may freeze).
- If the microcomputer doctor detects the abnormality of the drain-up machine during cool mode. do not execute emergency operation (It causes drain overflow).

## NOTES :

- Since the indoor fan motor (MF) is connected with 220V power, using 230, 240V power will require a setting change of the dip switch (SW1<I.B>) on the indoor controller board as shown in fig : \*1.

fig : \*1

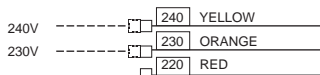
Indoor fan motor (MF) for 230, 240V.



- Since the indoor transformer (T) is connected with 220V power, if 230, 240V power used. Change the wiring connection showing fig : \*2.

fig : \*2

When power supply is



- Since the outdoor side electric wiring may change be sure to check the outdoor unit electric wiring for servicing.

- Symbols used in wiring diagram above are. □ : Connector, ⊙ : Terminal block

- Emergency operation

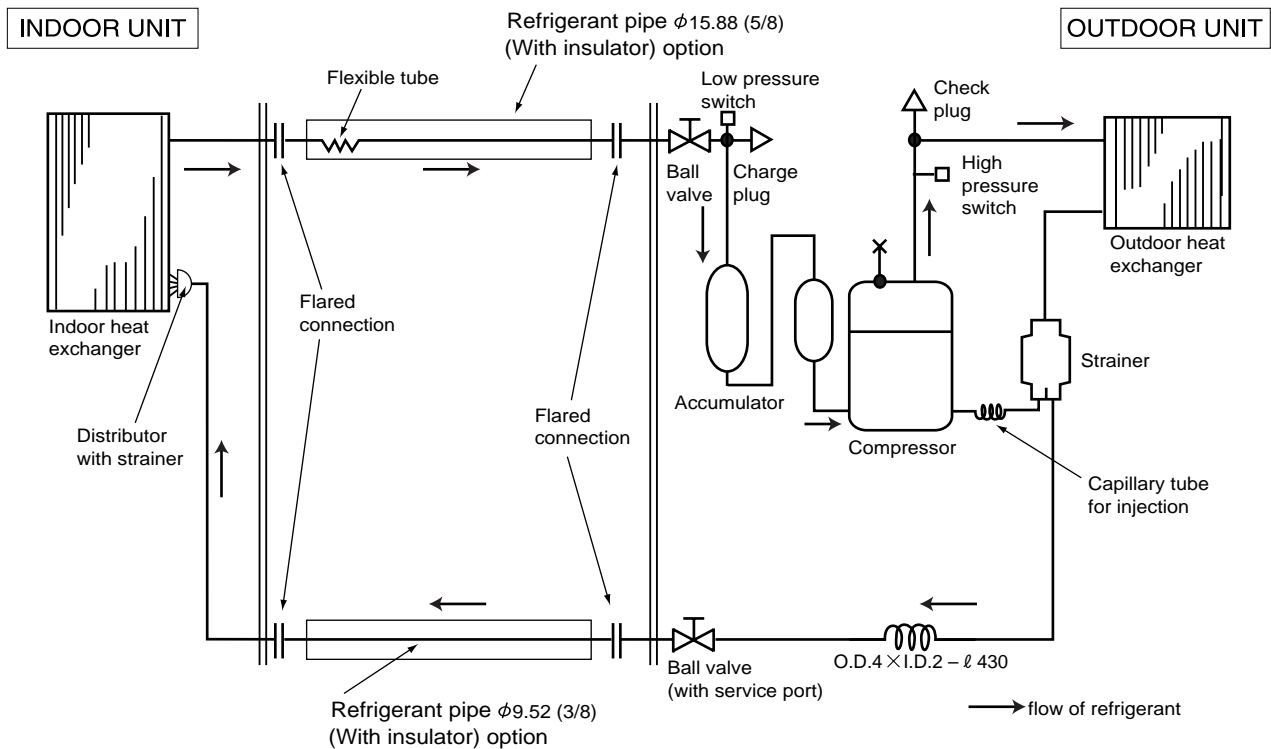
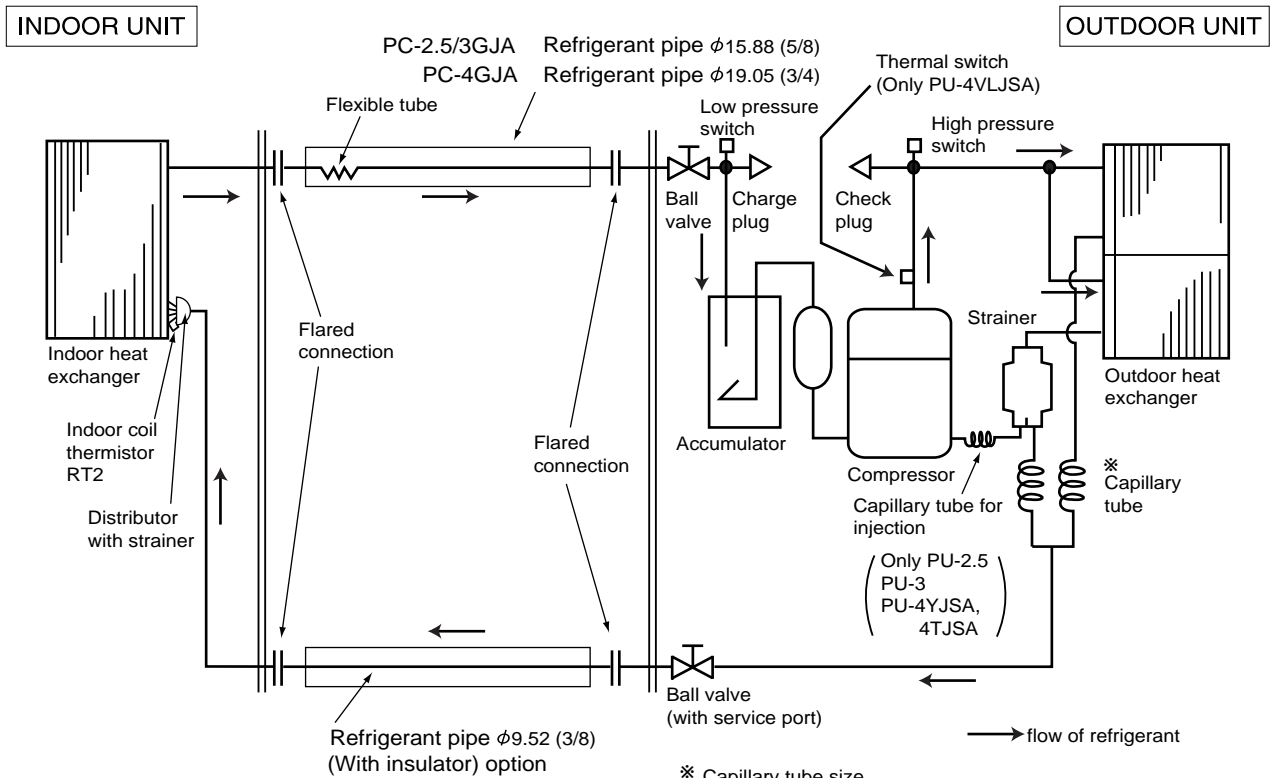
If remote controller or microcomputer fails but there is no other trouble, emergency operation is possible by setting dip switch (SW3&lt;I.B&gt;) on the indoor controller board.

## [Check items]

- Compressor and fan.
- Check the abnormality using self diagnostic function. When the result of self diagnosis indicates protective device such as freeze protection, emergency operation is not possible unless the cause is removed.
- Emergency operation will be continuous operation mode due to power ON/OFF (ON/OFF with remote controller is not possible).

## [Emergency operation procedure]

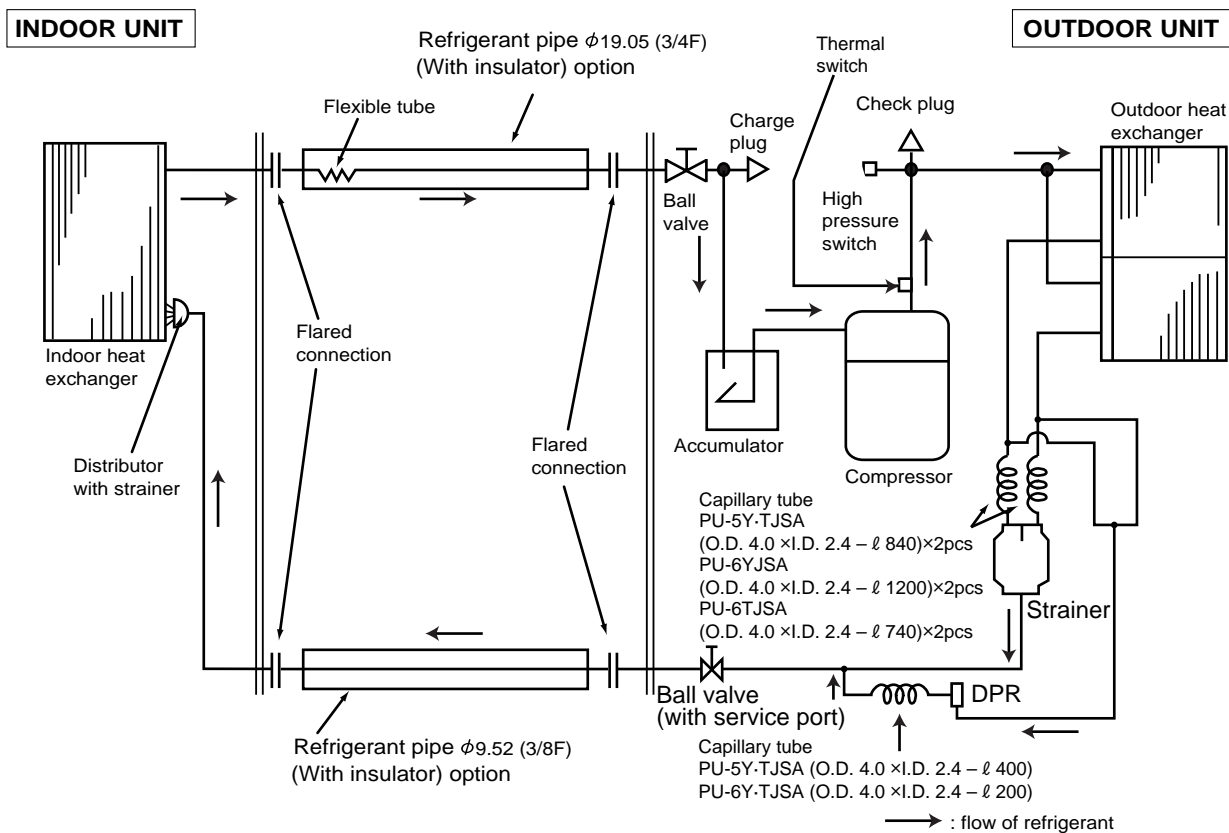
- Set the dip switch (SW3<I.B>) on the indoor controller board to ① on and ③ off for cooling.

PC-2GJA<sub>1</sub> / PU-2NJA<sub>1</sub>, PU-2VJA<sub>2</sub>PC-2.5GJA<sub>1</sub>, PC-3GJA<sub>1</sub>, PC-4GJA<sub>1</sub> / PU-2.5NJA<sub>1</sub>, PU-2.5VJA<sub>2</sub>, PU-3NJA<sub>1</sub>, PU-3VJA<sub>2</sub>, PU-3YJA<sub>3</sub>, PU-4TJSA<sub>2</sub>, PU-4VLJSA<sub>2</sub>, PU-4YJSA<sub>3</sub>

\* Capillary tube size

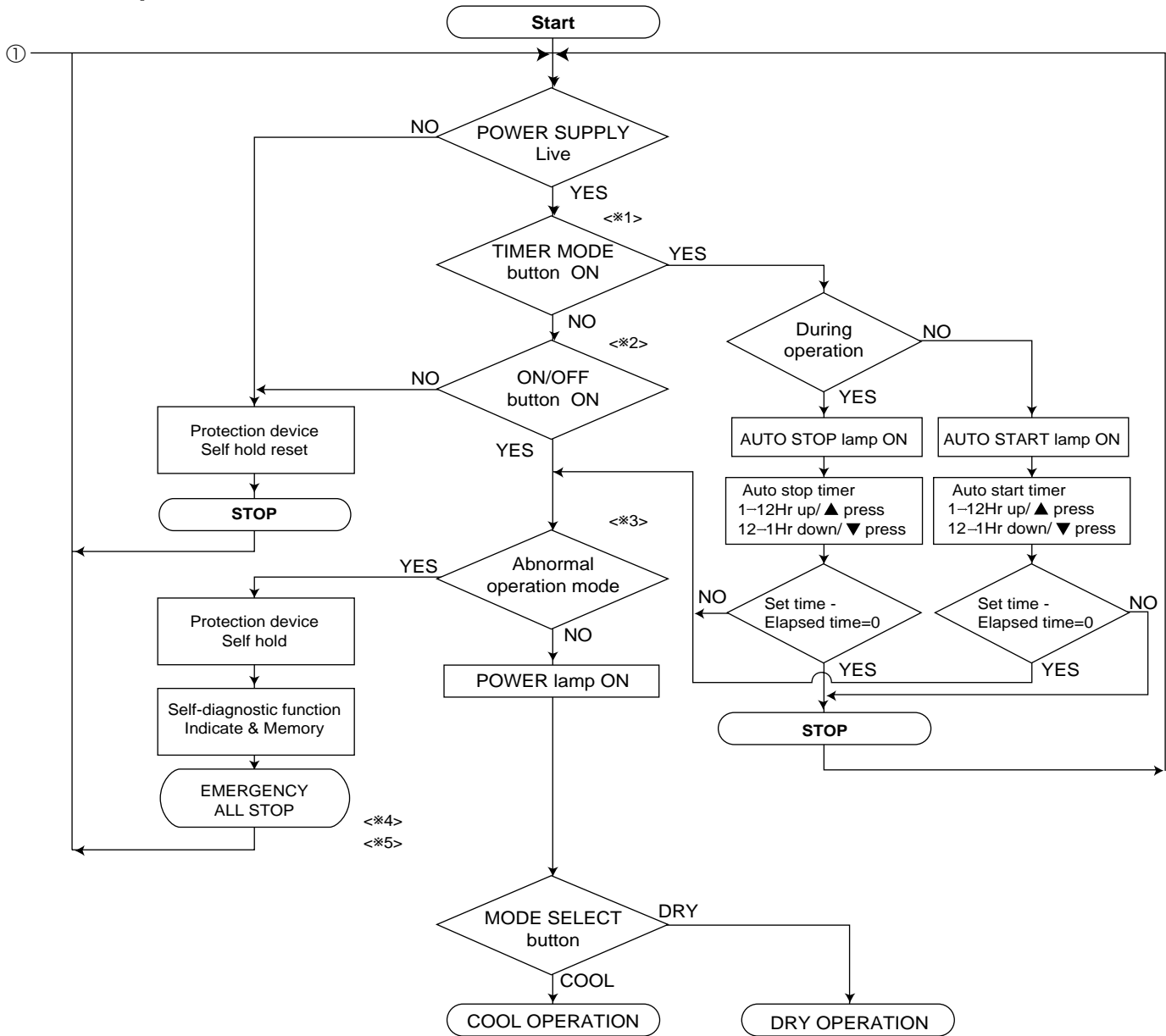
PU-2.5 (O.D.3.2  $\times$  I.D.1.6 -  $\ell$  760)  $\times$  2pcsPU-3 (O.D.3.2  $\times$  I.D.1.8 -  $\ell$  800)  $\times$  2pcsPU-4YJSA, 4VLJSA, 4TJSA (O.D.3.2  $\times$  I.D.2.0 -  $\ell$  840)  $\times$  2pcs

**PC-5GJSA<sub>1</sub>, 6GJSA<sub>1</sub> / PU-5YJSA, PU-5TJSA  
PU-6YJSA, PU-6TJSA**



## Models : PC-GJA

## 1. Main operation



※1 Refer to page 26 for timer mode details.

※2 The unit starts operation by pressing the ON / OFF switch when unit is OFF.

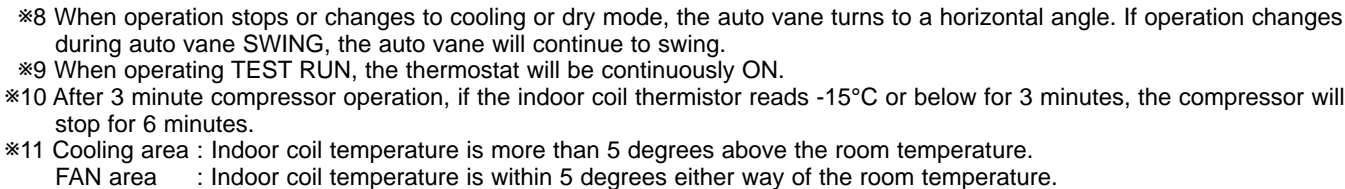
※3 The factors which cause "abnormal operation mode" are as follows.

- Outdoor unit abnormal operation.
- Fault of room temperature thermistor (RT1).
- Fault of indoor coil thermistor (RT2).
- Indoor coil frost protection mode.
- Drain water overflow prevention mode.

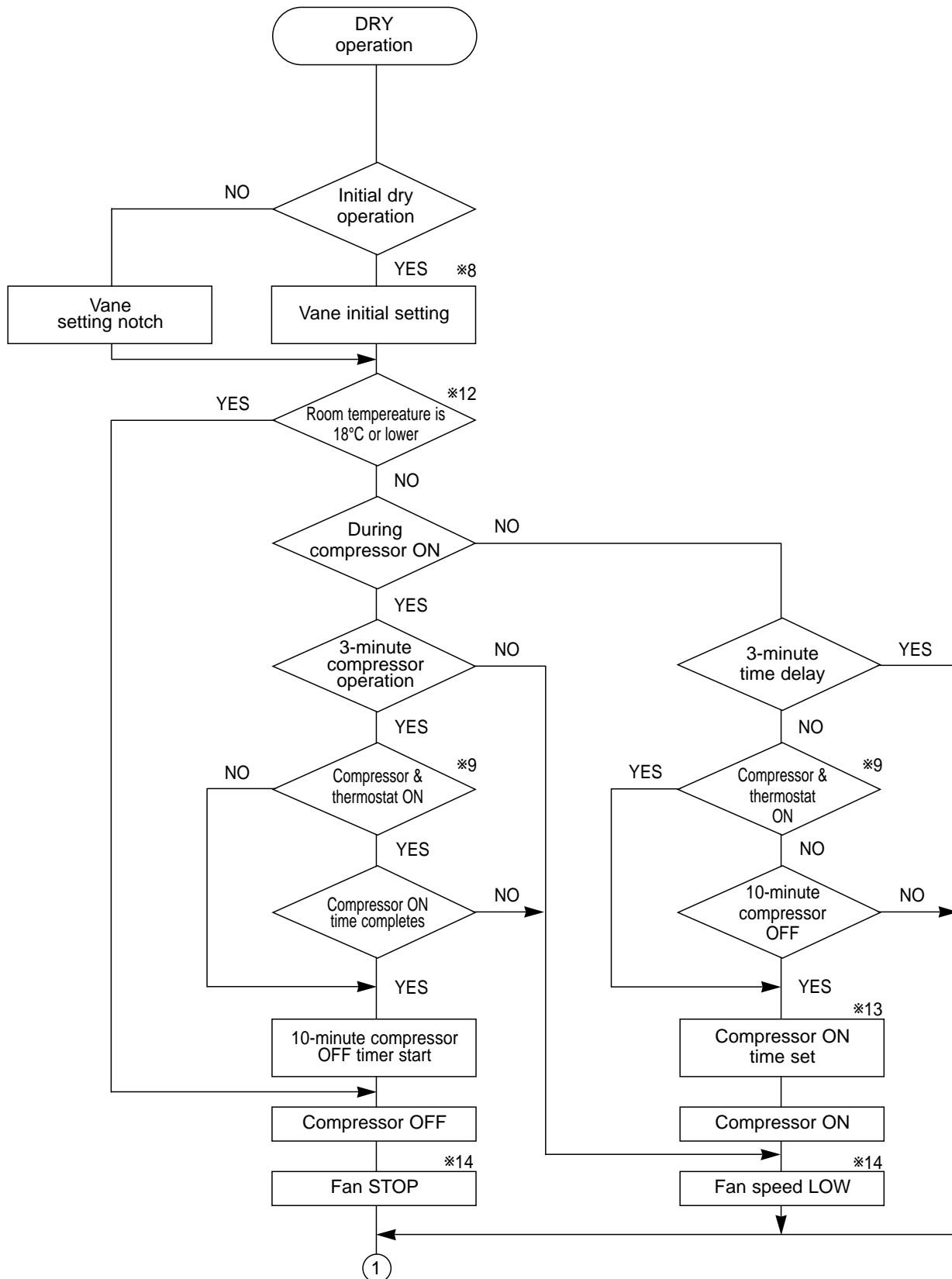
Refer to page 28 for abnormal operation mode details.

※4 The compressor will not start for 3 minutes after the stop.

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## DRY OPERATION



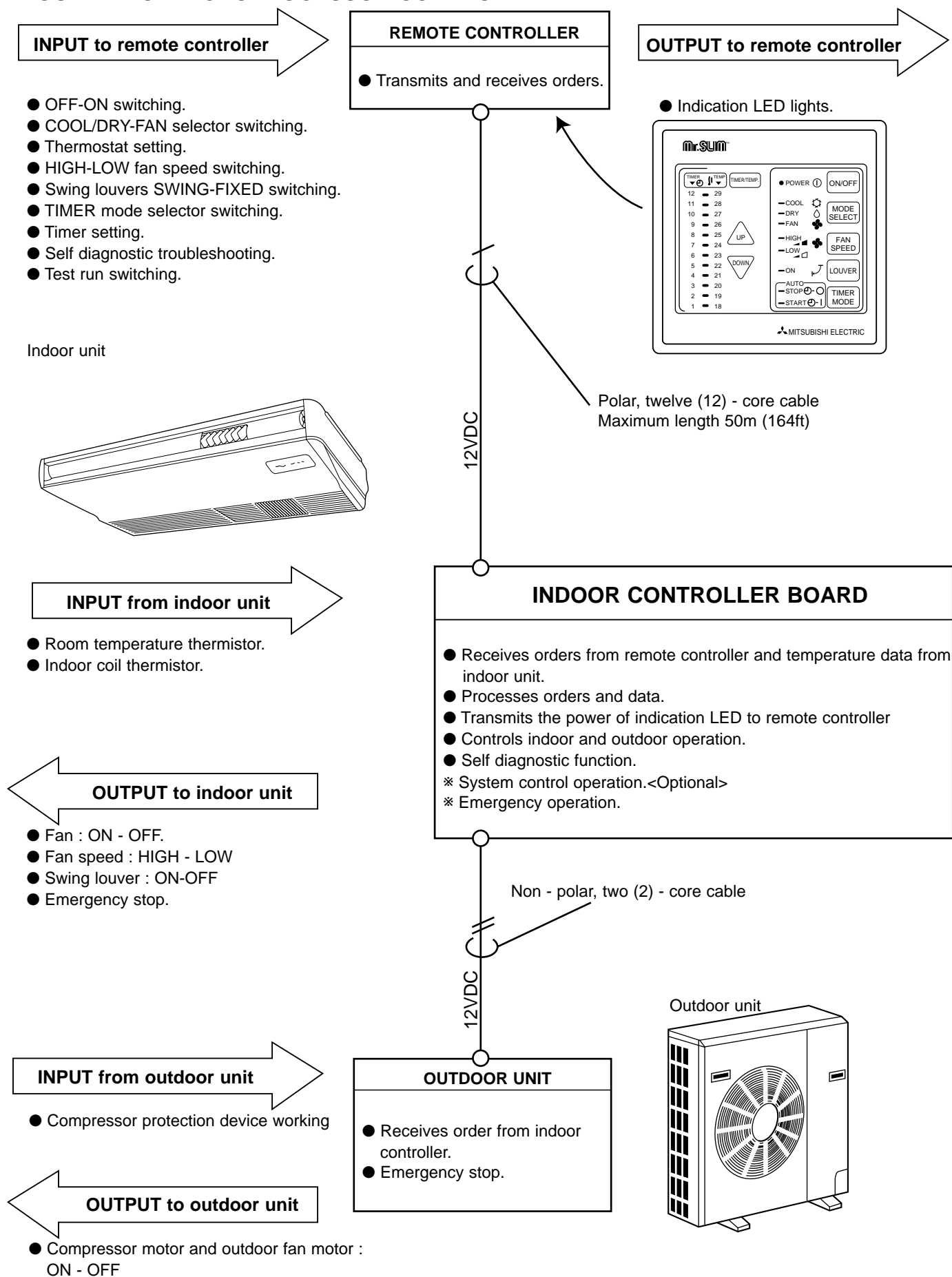
\*8—9 Refer to page 24~25.

\*12 When room temperature is 18°C or below, the compressor cannot operate.  
When room temperature rises over 18°C, the compressor starts after a 3-minute time delay.

\*13 Compressor ON time is decided by room temperature. Refer to page 24~25.

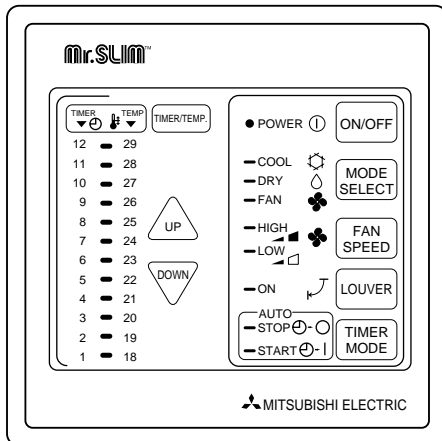
\*14 In dry operation, compressor ON makes the fan speed LOW and compressor OFF stops the fan.  
It is not possible to set the fan speed with the remote controller

## 1. OUTLINE OF MICROPROCESSOR CONTROL





## 2. INDOOR UNIT CONTROL

### 2-1 COOL operation

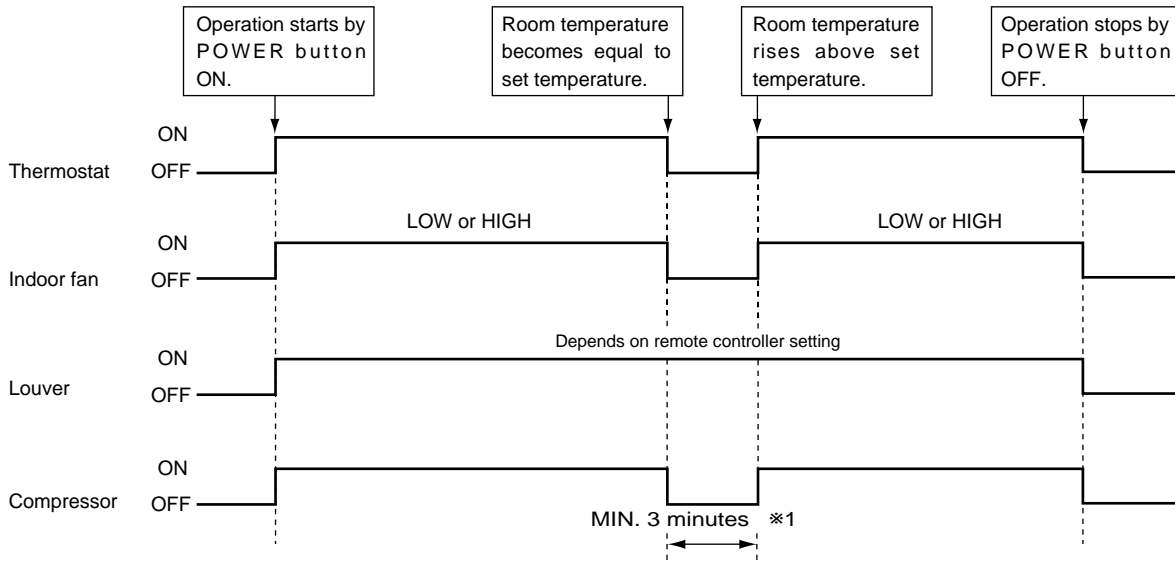


#### <How to operate>

- ① Press POWER ON/OFF button.
- ② Press MODE SELECT button to set operation mode to COOL.
- ③ Check  lamp is ON and set desired temperature with UP or DOWN button.

- NOTES :**
1. When  lamp is ON, press TIMER/TEMP button to change the display to temperature mode.
  2. Set temperature changes by 1°C in the range 18 ~ 29°C each time UP or DOWN button is pressed.
  3. The lighting lamp shows the set temperature, and the flashing lamp shows the room temperature. When the room temperature is equal to the set temperature, the lamp keeps lighting, 0.5 seconds brightly and 0.5 seconds faintly.

#### <COOL operation time chart>



※1 Even if the room temperature rise above the set temperature during this period, the compressor will not start until this period has ended.

#### (1) Compressor control

##### ① 3-minute time delay

To prevent overload, the compressor will not start within 3 minutes after stop.

##### ② The compressor runs when room temperature is higher than set temperature.

The compressor stops when room temperature is equal to or lower than the set temperature.

##### ③ The compressor stops in check mode or during protective functions.

##### ④ Coil frost prevention

To prevent indoor coil frost, the compressor will stop when the indoor coil thermistor (RT2) reads 1°C or below after the compressor has been continuously operated for at least 16 minutes or more. The coil frost prevention is released under any of the following conditions.

- The indoor coil thermistor rises to 10°C or above.
- The room temperature becomes equal to or lower than the set temperature.
- COOL mode is stopped or changed to another mode.

**NOTE :** By cutting the jumper wire JRO2 on the indoor controller board, the temperature to start coil frost prevention changes from 1°C to -3°C.

##### ⑤ Coil frost protection

When indoor coil temperature becomes -15°C or below, coil frost protection will proceed as follows.

##### <Start condition>

After the compressor has been continuously operated for 3 minutes or more, and the indoor coil temperature has been -15°C or below for 3 minutes, the coil frost protection will start.

##### <Coil frost protection>

Compressor stops for 6 minutes, and then restarts.

If the start condition is satisfied again during the first 10 minutes of compressor operation, both the indoor and outdoor units stop, displaying a check code of "P6" on the remote controller.



#### <Termination conditions>

Coil frost protection is released when the start condition is not satisfied again during the allowance, or when the COOL mode stops or changes to another mode.

#### (2) Indoor fan control

Indoor fan speed LOW/HIGH depends on the remote controller setting.

However, if an outdoor unit abnormality is detected, the indoor fan speed will be LOW, regardless of the remote controller setting.

#### (3) Louver control

Louver operation (SWING LOUVER ON / OFF) depends on the remote controller setting.

※ Louver comes to the horizontal position automatically after 1 hour operation in law mode.

#### (4) Detecting abnormalities in the outdoor unit

After the compressor has been continuously operated for 3 minutes, if the difference between the indoor coil temperature and room temperature is out of RANGE C for 1 minute, the indoor fan speed will turn to LOW. Five minutes later, if the difference is still out of RANGE C, the outdoor unit is functioning abnormally. Thus, the compressor will stop and the remote controller still display this occurrence.

RANGE A : Indoor coil temperature is more than 5 degrees above room temperature.

RANGE B : Indoor coil temperature is within 5 degrees either way of room temperature.

RANGE C : Indoor coil temperature is more than 5 degrees below room temperature.

#### (5) Drain pump control

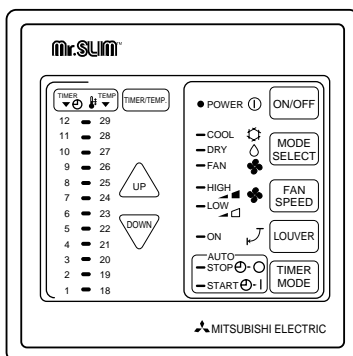
The drain pump works in COOL or DRY operation. When COOL or DRY operation stops or changes to another mode, the drain pump continues to operate for 3 more minutes.

##### <Drain sensor>


When both the drain pump and unit are operating, the drain sensor detects the temperature. This temperature tells whether the drain water level is above or under the drain sensor. If the drain water level rises above the drain sensor due to a drain pump malfunction, the unit will enter the check mode. The operation will stop and only the drain pump will continue to operate for 3 more minutes. When either of the following conditions are satisfied, the drain sensor is deemed to be under water.


- Though the drain sensor has been heated by the drain sensor heater for more than 40 seconds, its temperature rise is less than 20 degrees.
- The drain sensor temperature is below 63°C.

## 2-2 DRY operation

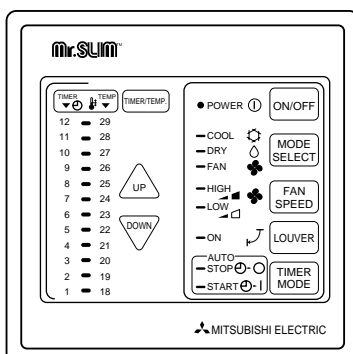


#### <How to operate>

- ① Press POWER ON/OFF button.
- ② Press MODE SELECT button to set operation mode to DRY.
- ③ Check  lamp is ON and set desired temperature with UP or DOWN button.

- NOTES :**
1. When  lamp is ON, press TIMER/TEMP button to change the display to temperature mode.
  2. Set temperature changes by 1°C in the range 18 ~ 29°C each time UP or DOWN button is pressed.
  3. The lighting lamp shows the set temperature, and the flashing lamp shows the room temperature.  
When the room temperature is equal to the set temperature, the lamp keeps lighting, 0.5 seconds brightly and 0.5 seconds faintly.

## 2-3 FAN operation



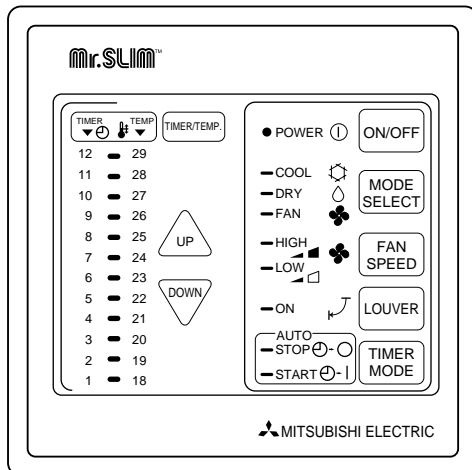
#### <How to operate>

- ① Press POWER ON/OFF button.
- ② Press MODE SELECT button to set operation mode to FAN.

**NOTES :** Temperature can not be set in FAN operation.

- (1) Indoor fan control  
The indoor fan speed LOW/HIGH depends on the remote controller setting.
- (2) Louver control  
The louver operation ON/OFF depends on the remote controller setting.
- (3) Drain pump control  
The drain pump does not work in FAN operation. As an exception, when COOL mode changes to FAN mode, the drain pump continues to operate for the first 3 minutes in FAN operation.

## 2-4 TIMER operation



### <Timer function>

AUTO STOP .....The air conditioner stops after the set time lapses.

AUTO START .....The air conditioner starts after the set time lapses.

#### <How to operate AUTO STOP timer>

- ① While **POWER** lamp is lighting, press TIMER MODE button.

**AUTO STOP** and **TIMER** lamps turn ON.

- ② Set the time for the AUTO STOP timer with the UP or DOWN button.  
**NOTE** : The time setting is in 1 hour units up to 12 hours.
- ③ With the lapse of time, the timer lamps turn OFF one by one, showing the remaining time.
- ④ To cancel the AUTO STOP timer and continue operation, press the TIMER MODE button.  
To cancel the AUTO STOP timer and stop operation, press the POWER ON/OFF button.

#### <How to operate AUTO START timer>

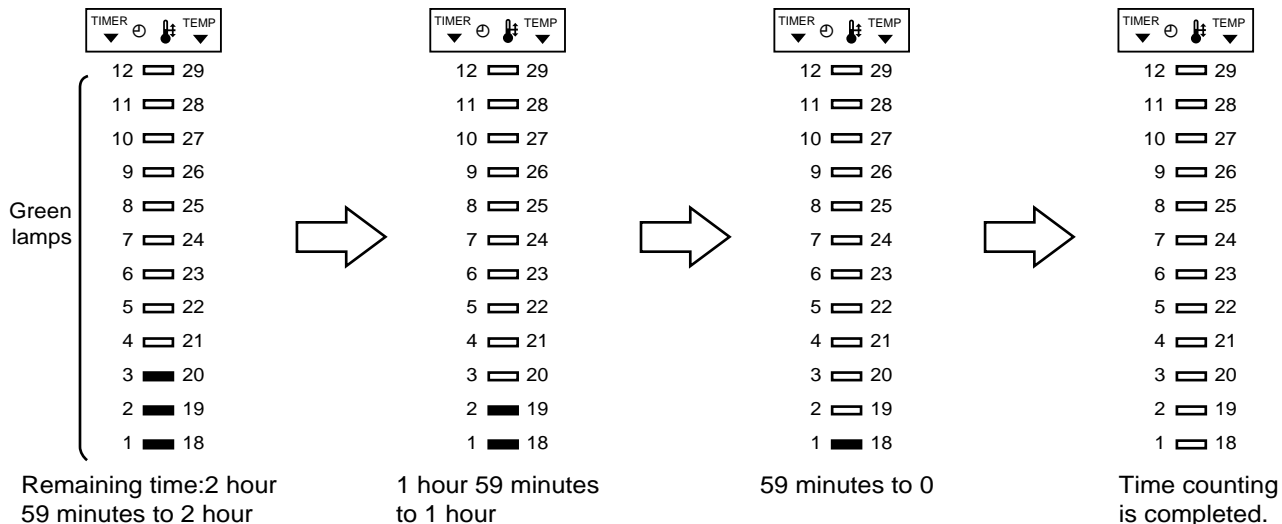
- ① While **POWER** lamp is OFF, press TIMER MODE button.

**AUTO START** and **TIMER** lamps turn ON.

- ② Set the time for the AUTO START timer with the UP or DOWN button.  
**NOTE** : The time setting is in 1 hour units up to 12 hours.
- ③ With the lapse of time, the timer lamps turn OFF one by one, showing the remaining time.
- ④ To cancel the AUTO START timer and keep the unit OFF, press the TIMER MODE button.  
To cancel the AUTO START timer and start operation, press the POWER ON/OFF button.


### <Remaining time display>

The green lamps show the remaining time until the time is up. When the time is up, the green lamps are all off.



**NOTE** : When AUTO STOP timer is active, the remaining time display can be changed to the temperature display by pressing **DISPLAY SELECT** button.

## 2-5 Test run

The unit starts the test run by pressing both the UP and DOWN buttons simultaneously for more than two seconds during  
 lamp ON or the unit OFF.

- The test run automatically stops in 2 hours.
- Set temperature is not displayed during test run.
- To cancel the test run, press the POWER ON/OFF button.

## <Initial setting>

The units are set as follows by the factory.

- |                                |                          |
|--------------------------------|--------------------------|
| 1) Initial operation mode: FAN | 3) Swing louver : OFF    |
| 2) Fan speed : LOW             | 4) Set temperature: 28°C |




## 2-6 Emergency operation

When the remote controller or microprocessor malfunctions and no other trouble exists, emergency operation is available by setting the dipswitch on the indoor controller board.

### [Check items]

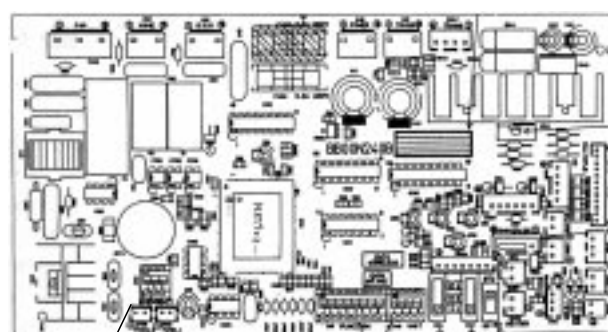
- (1) Make sure the compressor and the fans are running normally.
- (2) Locate the trouble with the self-diagnostic function. If the self-diagnostic function indicates that the protection device (such as coil frost protection) is functioning, the sources must be removed before attempting emergency operation.  
Emergency operation ON/OFF is activated not with the remote controller but with the circuit breaker.

### [Emergency operation procedure]

- (1) Cooling operation is available by setting the dipswitch SW3  and  ON and  OFF on the indoor controller board.
- (2) To start emergency operation, turn the outdoor side circuit breaker ON first, and then the indoor side circuit breaker ON.
- (3) During emergency operation, the indoor fan runs on HIGH speed, the compressor runs continuously, and the louver stops.

When the drain pump is attached, it works in emergency operation.

- (4) Thermostat will not function.
- (5) Do not use emergency cooling operation for more than 10 hours, as the indoor coil may freeze.  
 ※ If the self-diagnostic function shows a drain pump malfunction, do not attempt emergency operation, as the drain may overflow.



SW3

INDOOR CONTROLLER BOARD

## 2-7 Auto Restart function

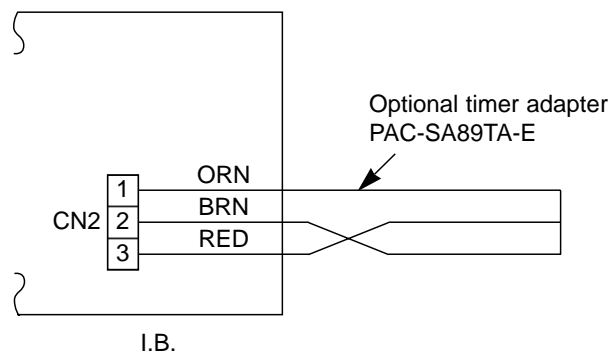
Unit can be start / stop by turning the breaker ON / OFF.

- (1) Cutting the JR06 on the indoor board.

Unit can be start / stop using a remote controller. Only If the unit was already being operated before power off, the unit restarts automatically as soon as power is back.

JR06	Auto restart
Available	Not effective
Not available	Effective

- (2) Short all the CN2 on the indoor board.  
Unit can not be start/ stop using remote controller.  
Unit will restart automatically whether the unit is operated or stopped when the power is cut off.



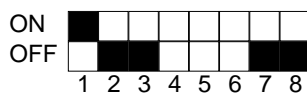
## 2-8 Function of jumper wire and dipswitch on indoor controller board

### 1. Jumper wire

- ① JR1...Jumper wire for the auto vanes.  
Cut JR01 for the unit WITHOUT auto vanes.
- ② JR2...Jumper wire for the temperature to start coil frost prevention  
Cutting JR02 changes the temperature from +1°C to -3°C.
- ③ JR3...Jumper wire for set temperature adjustment in HEAT mode.  
In HEAT operation, heated air stagnates in the upper part of the room. The indoor unit installed in the upper part of the room will detect the air temperature higher than the actual temperature in the living space. This difference is about 4 degrees. Therefore, the temperature detected by the room temperature thermistor should be corrected 4 degrees down. The unit with JR04 attached will make this adjustment.
- ④ JR4...Jumper wire for the indoor fan speed during thermostat OFF in HEAT mode  
Cutting JR04 changes the speed from Extra-Low to Low.
- ⑤ JR5...Jumper wire for detecting abnormalities in the outdoor unit  
Cutting JR05 makes this detection unavailable. (Occurrence of abnormality can not be detected. )
- ⑥ JR6...Jumper wire for auto restart function  
Cutting JR06 makes the auto restart function available.

### 2. Dipswitch

#### ① SW1 (Function switch)



SW1-1) Switch for power supply

ON : 220V OFF : 230V, 240V

SW1-2) Switch for single or twin control

ON : Twin control OFF : Single control

SW1-3) Switch for unit number in twin control

(This switch is valid when SW1-2 is ON. )

ON : Unit No. 2 OFF : Unit No. 1

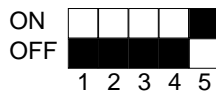
SW1-4, SW1-5, SW1-6) Switch for capacity of each model

PC-2GJA <sub>1</sub>	PC-2.5GJA <sub>1</sub>	PC-3GJA <sub>1</sub>	PC-4GJSA <sub>1</sub>	PC-5GJSA <sub>1</sub>	PC-6GJSA <sub>1</sub>
ON OFF 4 5 6	ON OFF 4 5 6	ON OFF 4 5 6	ON OFF 4 5 6	ON OFF 4 5 6	ON OFF 4 5 6

SW1-7, SW1-8) Pair number of the wireless remote controller

ON OFF 7 8	ON OFF 7 8	ON OFF 7 8	ON OFF 7 8
0	1	2	3

#### ② SW2 (Unit switch)



SW2-1) Switch for air conditioner with or without electric heater

ON : Unit with electric heater

OFF : Unit without electric heater (PC-GJ(S)A)

SW2-2) Switch for air conditioner with or without heat pump

(Keep this switch OFF for PC-GJ(S)A)

ON : Unit with heat pump OFF : Unit without heat pump

SW2-3) Switch for function code (Keep this switch OFF for PC-GJ(S)A)

ON : 1 OFF : 0

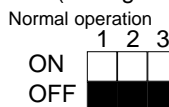
SW2-4) Switch for function code (Keep this switch OFF for PC-GJ(S)A)

ON : 1 OFF : 0

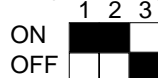
SW2-5) Switch for function code (Keep this switch ON for PC-GJ(S)A)

ON : 1 OFF : 0

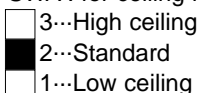
#### ③ SW3 (Emergency operation switch)



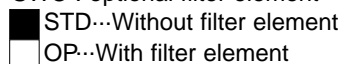
For emergency cooling



#### ④ SWA : for ceiling height




#### ⑤ SWC : optional filter element



	For ceiling height
High ceiling	3.5m
Standard	2.8m
Low ceiling	2.3m

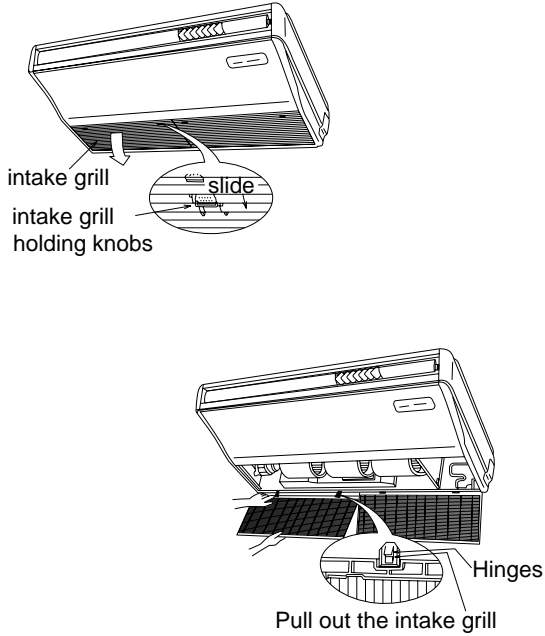
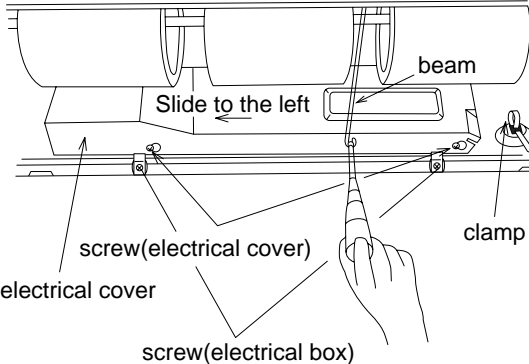
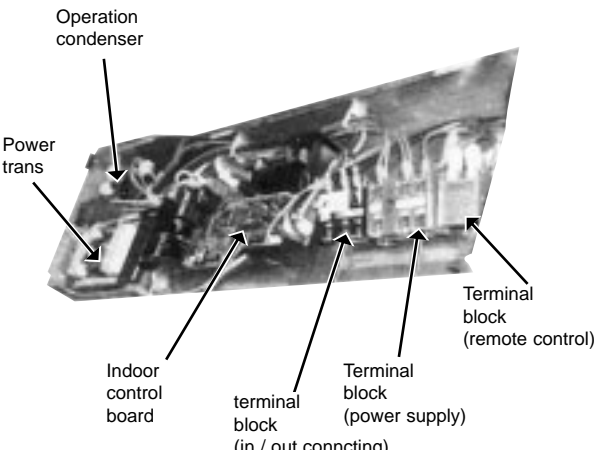
## 1. self-diagnostic function

- (1) When trouble occurs during operation, the unit stops and enters the self-diagnostic mode, and displays the trouble location with the timer lamps on the remote controller. All the other lamps are OFF.
- (2) To activate the self-diagnostic function for service, press the UP and DOWN buttons simultaneously for more than two seconds during operation with  lamp ON.
- (3) The timer lamps show the latest trouble. Trouble data is memorized until the next trouble occurs, even when the breaker turns OFF. To clear the memory, press the UP and DOWN buttons simultaneously for more than two seconds during the test run.
- (4) All buttons except the POWER ON/OFF button are unavailable during the self-diagnostic mode.
- (5) To release the self-diagnostic mode, press the POWER ON/OFF button.

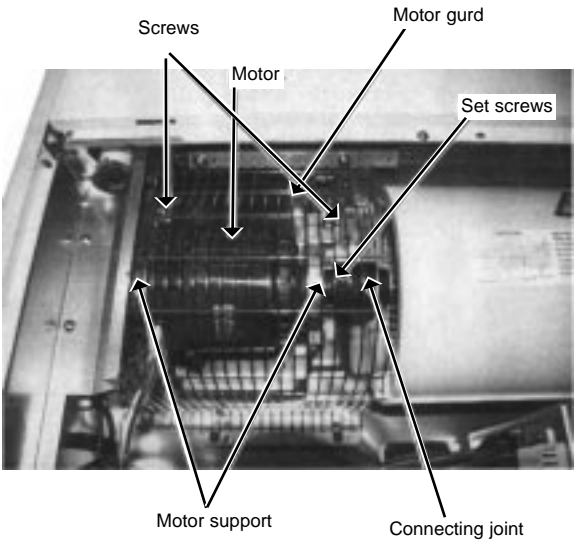
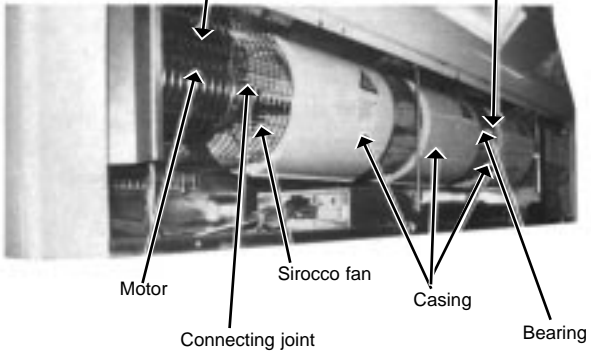
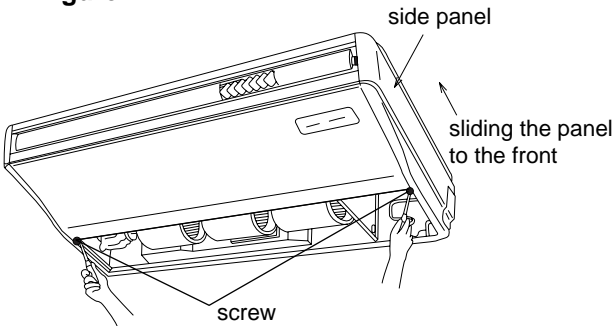
		Unit	Trouble location	Cause	Measures
		Transmission error in twin control		<ul style="list-style-type: none"> <li>● Wrong wiring between No. 1 and No. 2 units</li> <li>● Poor connector contact</li> </ul>	<ul style="list-style-type: none"> <li>● Check dipswitch setting</li> <li>● Check wiring</li> </ul>
		Outdoor unit		<ul style="list-style-type: none"> <li>● Wrong wiring between indoor/outdoor units</li> <li>● Outdoor unit abnormality detection</li> <li>● Malfunction of outdoor coil thermistor</li> <li>● Reversed phase detected</li> </ul>	<ul style="list-style-type: none"> <li>● Check wiring</li> <li>● Check outdoor unit</li> <li>● Check outdoor coil thermistor</li> </ul>
12	29	Unit No.1	Room temperature thermistor (RT1)	<ul style="list-style-type: none"> <li>● Poor connector contact</li> <li>● Thermistor malfunction</li> </ul>	<ul style="list-style-type: none"> <li>● Check connector</li> <li>● Check thermistor</li> <li>→ No trouble → replace indoor controller board.</li> </ul>
11	28	Unit No.2			
10	27	Unit No.1	Indoor coil thermistor (RT2)	<ul style="list-style-type: none"> <li>● Poor connector contact</li> <li>● Thermistor malfunction</li> </ul>	<ul style="list-style-type: none"> <li>● Check connector</li> <li>● Check thermistor</li> <li>→ No trouble → replace indoor controller board.</li> </ul>
9	26	Unit No.2			
8	25	Unit No.1	Drain sensor (DS)	<ul style="list-style-type: none"> <li>● Poor connector contact</li> <li>● Thermistor malfunction</li> </ul>	<ul style="list-style-type: none"> <li>● Check connector</li> <li>● Check thermistor</li> <li>→ No trouble → replace indoor controller board.</li> </ul>
7	24	Unit No.2			
6	23	Unit No.1	Drain overflow protection	<ul style="list-style-type: none"> <li>● Drain pump malfunction</li> <li>● Drain sensor improperly mounted</li> </ul>	<ul style="list-style-type: none"> <li>● Check drain pump</li> <li>● Check drain sensor</li> <li>→ No trouble → replace indoor controller board.</li> </ul>
5	22	Unit No.2			
4	21	Unit No.1	Coil frost or overheat prevention	<ul style="list-style-type: none"> <li>● Air passage short cycle</li> <li>● Air filter clogged</li> <li>● Indoor fan malfunction</li> </ul>	<ul style="list-style-type: none"> <li>● Remove blockage</li> <li>● Check air filter</li> <li>● Check indoor fan</li> </ul>
3	20	Unit No.2			
2	19	Unit No.1	Coil frost or overheat prevention	<ul style="list-style-type: none"> <li>● Air passage short cycle</li> <li>● Air filter clogged</li> <li>● Indoor fan malfunction</li> </ul>	<ul style="list-style-type: none"> <li>● Remove blockage</li> <li>● Check air filter</li> <li>● Check indoor fan</li> </ul>
1	18	Unit No.2			

(Indicates that the unit is in self-diagnostic mode)

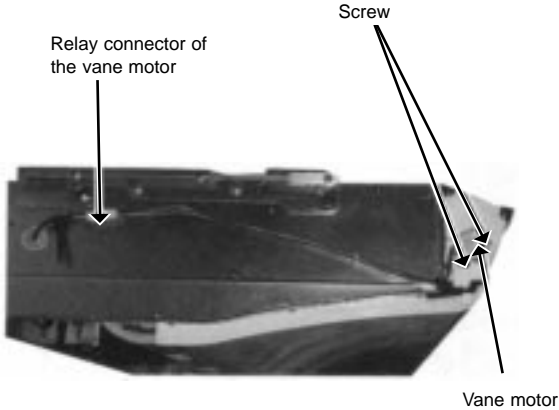
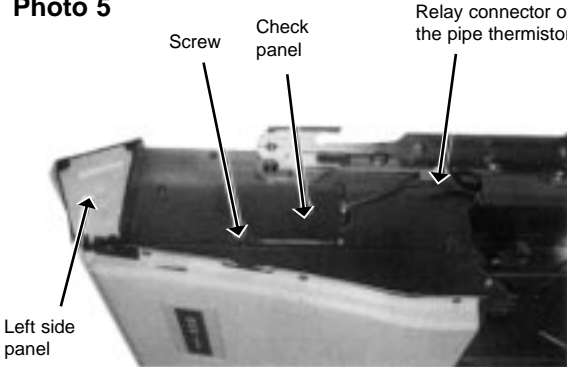
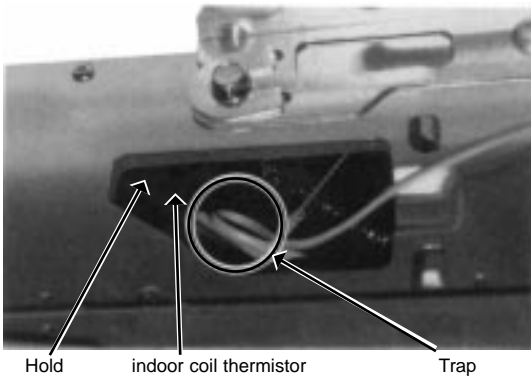
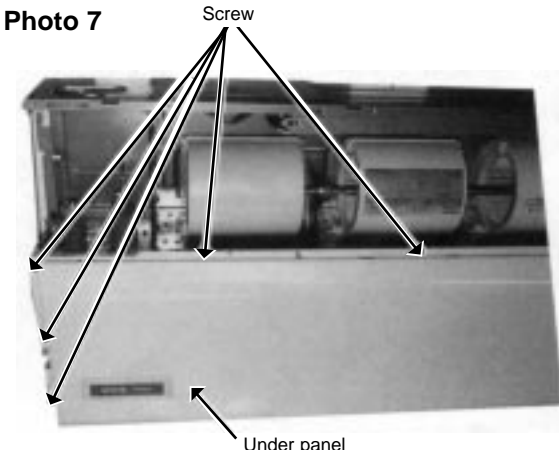
## PC-3GJA1

OPERATING PROCEDURE	PHOTOS&ILLUSTRATIONS
<p><b>1. Removing the air intake grill</b></p> <ol style="list-style-type: none"> <li>(1) Slide the intake grill holding knobs (at two locations) backward to open the intake grill.</li> <li>(2) When the intake grill left open, push the stoppers on the rear hinges (at two locations) to pull out the intake grill.</li> </ol>	<p><b>Figure 1</b></p> 
<p><b>2. Removing the electrical box</b></p> <ol style="list-style-type: none"> <li>(1) Remove the air intake grill.</li> <li>(2) Remove the screw from the beam and remove the beam.</li> <li>(3) Remove the screws from the electrical cover, and remove the electrical cover.</li> <li>(4) Disconnectors including CN6V and CN21.</li> <li>(5) Remove the screws from the electrical box and pull out the electrical box.</li> </ol> <p>&lt;Electrical parts in the electrical box&gt;  Terminal block (for power supply)  Terminal block (for in/outdoor connecting wire)  Operation condenser  Indoor control board  Power Trans</p>	<p><b>Figure 2</b></p>  <p><b>Photo 1</b></p> 



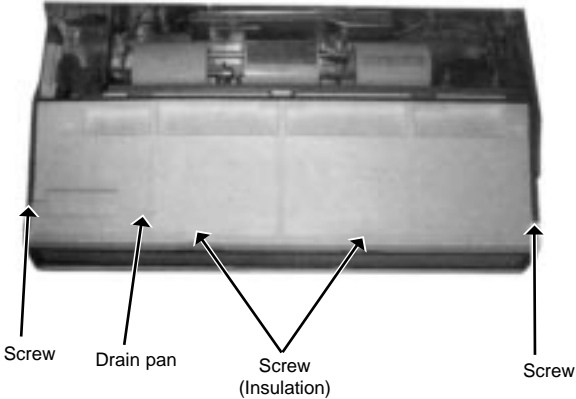
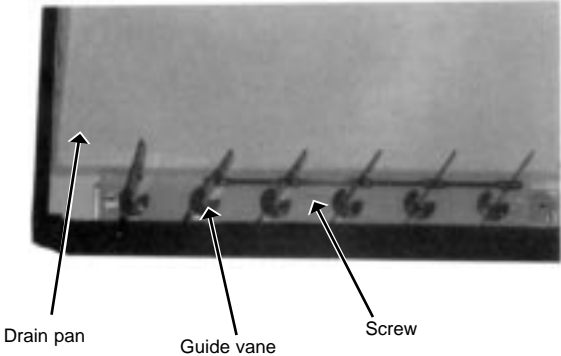
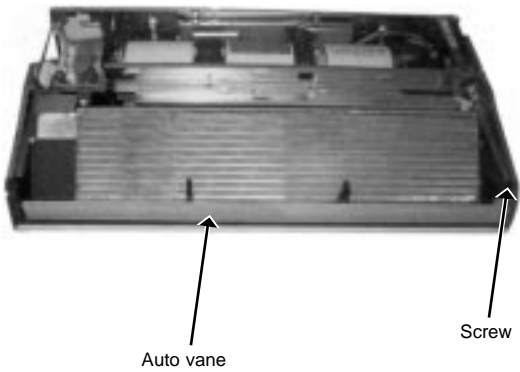
OPERATING PROCEDURE	PHOTOS&ILLUSTRATIONS
<p><b>3. Removing the fan motor</b></p> <ol style="list-style-type: none"><li>(1) Remove the intake grill.</li><li>(2) Disconnect the fan motor connector.</li><li>(3) Unscrew screws for removing the motor guard.</li><li>(4) Unscrew screws for removing the fan guard.</li><li>(5) Remove the screw for removing the motor support at both left and right side.</li><li>(6) Loosen the set screws at the fan motor side of the connecting joint.</li><li>(7) Slide the fan motor to the left side and pull it out.</li></ol>	<p><b>Photo 2</b></p>  <p>This photograph shows the internal components of the fan motor assembly. Labels with arrows point to various parts: 'Screws' at the top left, 'Motor' in the center, 'Motor gurd' at the top right, 'Set screws' on the right side, 'Motor support' at the bottom left, and 'Connecting joint' at the bottom right.</p>
<p><b>4. Removing the sirocco fan</b></p> <ol style="list-style-type: none"><li>(1) Remove the air intake grill.</li><li>(2) Remove 1 beam.</li><li>(3) Unscrew screws for removing the motor guard.</li><li>(4) Unscrew screws for removing the fan guard.</li><li>(5) Remove the lower casing while pressing the stoppers at upper side of the casing.</li><li>(6) Loosen the set screws at the connecting joint.</li><li>(7) Remove the sirocco fan and shaft together by sliding the shaft to the left.</li></ol> <p>(Note) Make sure that the upper side casing is snapped to the fan plate securely with catch.</p>	<p><b>Photo 3</b></p>  <p>This photograph shows the sirocco fan assembly. Labels with arrows point to: 'Motor guard' at the top left, 'Fan guard' at the top right, 'Motor' on the left, 'Sirocco fan' in the center, 'Casing' on the right, 'Connecting joint' at the bottom left, and 'Bearing' at the bottom right.</p>
<p><b>5. Removing the side panel</b></p> <ol style="list-style-type: none"><li>(1) Remove the air intake grill.</li><li>(2) Remove the screw from the side panel, and remove the side panel by sliding the panel to the front.</li></ol>	<p><b>Figure 2</b></p>  <p>This line drawing illustrates the process of removing the side panel. It shows a hand pulling the 'side panel' forward. An arrow indicates the direction of movement with the text 'sliding the panel to the front'. A 'screw' is shown being removed from the bottom of the panel.</p>



OPERATING PROCEDURE	PHOTOS&ILLUSTRATIONS
<p><b>6. Removing the vane motor</b></p> <p>(1) Remove the air intake.</p> <p>(2) Remove the left side panel.</p> <p>(3) Remove the relay connector of vane motor.</p> <p>(4) Remove the electrical box.</p> <p>(5) Remove the screws of vane motor, then remove vane motor.</p> <p>(Note) Connect the lead wires and connectors properly and place them in the proper position so that the wires are not pinched by other parts.</p>	<p><b>Photo 4</b></p> 
<p><b>7. Removing the indoor coil thermistor</b></p> <p>(1) Remove the air intake grill.</p> <p>(2) Remove the right side panel.</p> <p>(3) Remove the relay connector of the indoor coil thermistor.</p> <p>(4) Remove the screw, and remove the check panel.</p> <p>(5) Extract the indoor coil thermistor from the holder.</p> <p>&lt;Caution for the installation&gt; There is a possibility for the short circuit when connector gets wet by water through the thermistor lead wire. Therefore, lead wire of the indoor coil thermistor should be trapped as shown in the picture.</p>	<p><b>Photo 5</b></p>  <p><b>Photo 6</b></p> 
<p><b>8. Removing the under panel</b></p> <p>(1) Remove the air intake grill.</p> <p>(2) Remove the beam.</p> <p>(3) Remove the side panel (right and left).</p> <p>(4) Unscrew the screws of the under panel, then remove the lower panel.</p> <p>※Weight of the lower panel : app. 2kg.</p>	<p><b>Photo 7</b></p> 





OPERATING PROCEDURE	PHOTOS&ILLUSTRATIONS
<p><b>9. Removing the drain pan</b></p> <ol style="list-style-type: none"><li>(1) Remove the air intake grill.</li><li>(2) Remove the beam.</li><li>(3) Remove the side panel (right and left).</li><li>(4) Remove the under panel. Remove the screws of the right and left side drain pan.</li><li>(5) Remove the insiation in center of the drain pan, and after removing the screw, remove the drain pan.</li></ol> <p>(Note) Please aware that there might be drain left in the drain pan when you remove the drain pan.</p>	<p><b>Photo 8</b></p> 
<p><b>10. Removing the guide vane</b></p> <ol style="list-style-type: none"><li>(1) Remove the intake grill.</li><li>(2) Remove the beam.</li><li>(3) Remove the side panel (right and left).</li><li>(4) Remove the under panel.</li><li>(5) Remove the drain pan.</li><li>(6) Remove the screw from the guide vane, then remove the guide vane.</li></ol>	<p><b>Photo 9</b></p> 
<p><b>11. Removing the Auto vane</b></p> <ol style="list-style-type: none"><li>(1) Remove the intake grill.</li><li>(2) Remove the left side panel.</li><li>(3) Remove the left side box.</li><li>(4) Remove the under panel.</li><li>(5) Remove the screw from the auto vane.</li><li>(6) Slide the auto vane to the right side and pull the auto vane out.</li></ol>	<p><b>Photo 10</b></p> 

## OPERATING PROCEDURE

### 12. Removing the heat exchanger

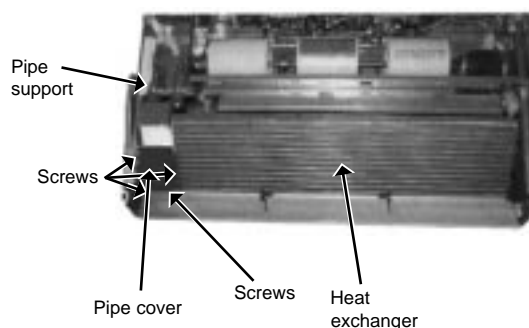
- (1) Remove the air intake grill.
- (2) Remove the beam.
- (3) Remove the side panel. (right and left)
- (4) Disconnect the relay connector.
- (5) Remove the under panel.
- (6) Remove the drain pan.
- (7) Unscrew the screw of the pipe cover, and remove the pipe cover.
- (8) Unscrew the screw of the pipe support, and remove the pipe support.
- (9) Unscrew the screw of the heat exchange, and remove the heat exchanger.

Remove the heat exchange with care, since this is quite heavy. Removing work should be done with more than 2 people.

※ Weight of heat exchanger : ApR.5.3kg.

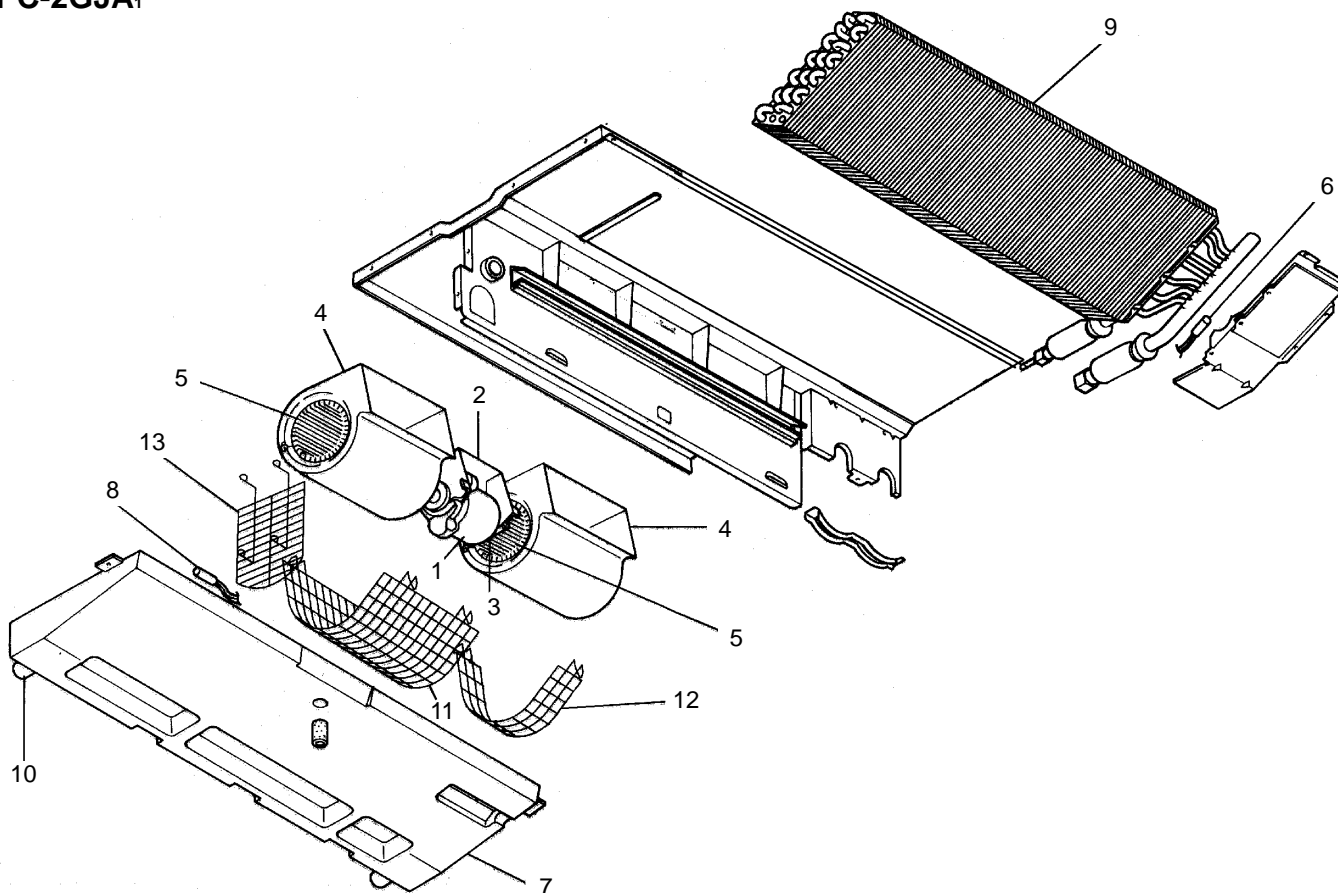
## PHOTOS&ILLUSTRATIONS

Photo 11



## FAN PARTS

PC-2GJA

PC-2GJA<sub>1</sub>

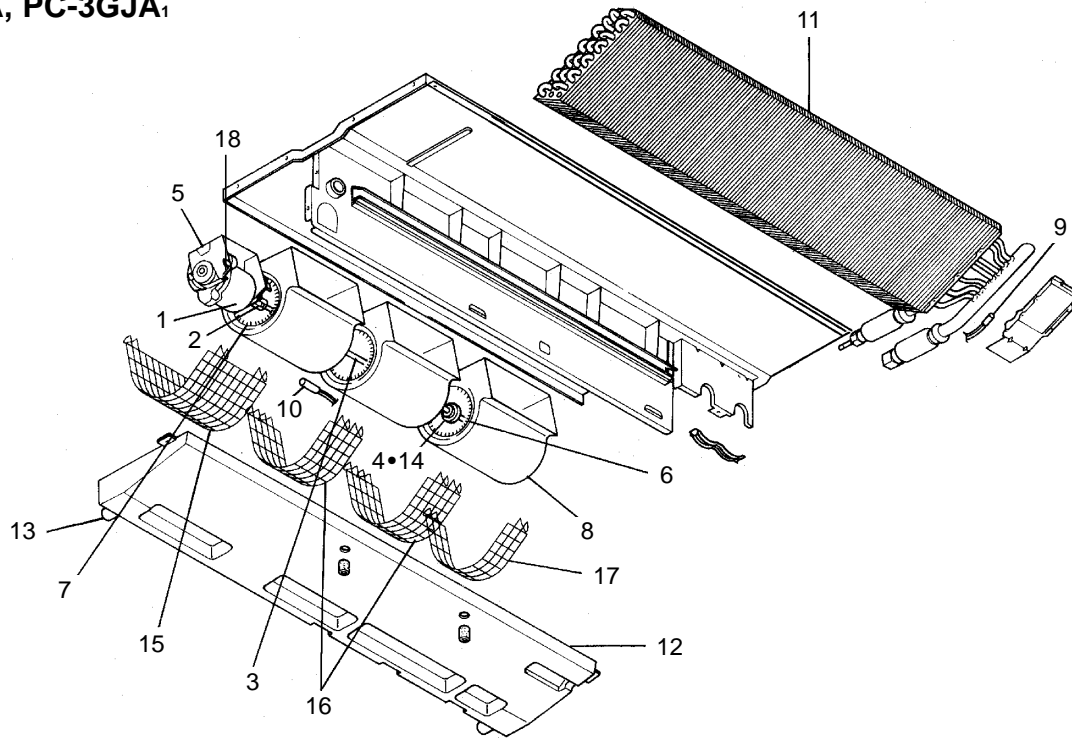
Part numbers that are circled not shown in the figure.

No.	Part No.	Part Name	Specification	Q'ty / set	Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				PC-2				Unit	Amount
				GJA, GJA <sub>1</sub>					
1	T7W 23J 762	FAN MOTOR	D09B4P54MS	1		MF			
2	R01 17J 130	MOTOR LEG		1					
3	R01 43E 126	PIECE (MOTOR)		1					
4	R01 17J 110	CASING		2					
5	R01 17J 114	SIROCCO FAN		2					
6	R01 17J 202	INDOOR COIL THERMISTOR		1		RT2			
7	R01 17J 529	DRAIN PAN ASSY		1					
8	R01 18J 202	ROOM TEMPERATURE THERMISTOR		1		RT1			
9	T7W 26J 480	HEAT EXCHANGER		1					
10	R01 17J 524	DRAIN PLUG		1					
11	T7W 17J 675	FAN GUARD		1					
12	T7W 18J 675	FAN GUARD		1					
13	T7W 19J 675	FAN GUARD		1					

## FAN PARTS

PC-2.5GJA, PC-2.5GJA<sub>1</sub>

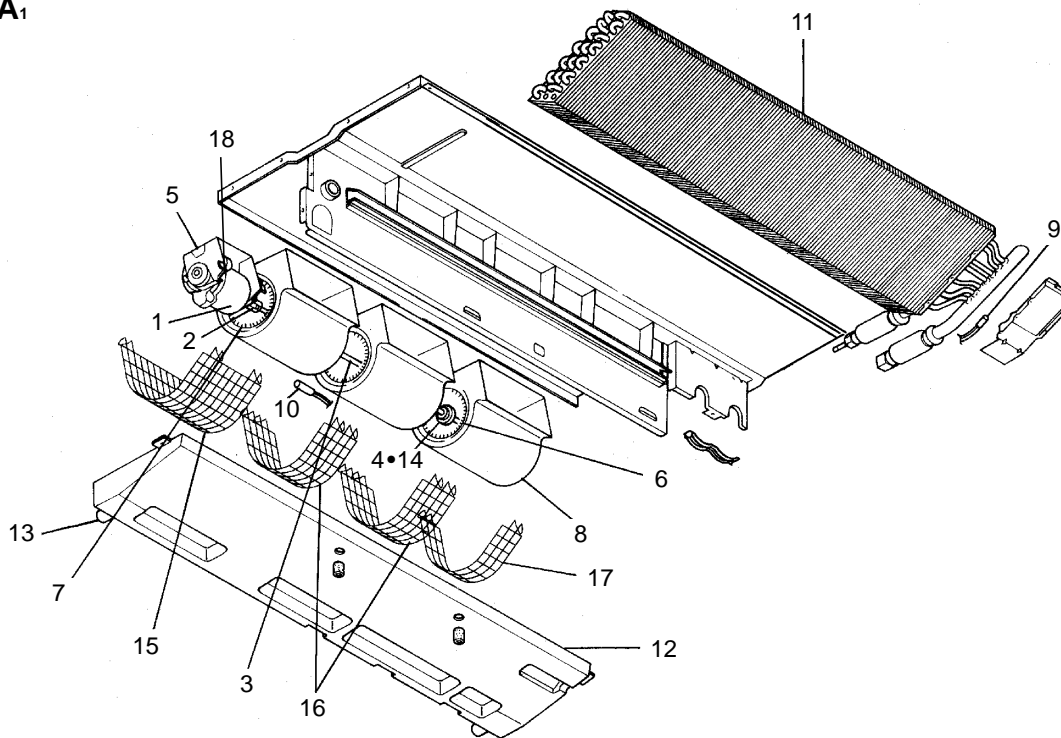
PC-3GJA, PC-3GJA<sub>1</sub>



Part numbers that are circled not shown in the figure.

No.	Part No.	Part Name	Specification	Q'ty / set		Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				PC-2.5	PC-3				Unit	Amount
				GJA,GJA <sub>1</sub>	GJA,GJA <sub>1</sub>					
1	T7W 30J 762	FAN MOTOR	DC9C4P70MS	1	1			MF		
2	R01 29J 116	FAN JOINT		1	1					
3	R01 29J 100	SHAFT (FAN)		1	1					
4	R01 705 103	SLEEVE BEARING		1	1					
5	R01 29J 130	MOTOR LEG		1	1					
6	R01 29J 114	SIROCCO FAN		2	2					
7	R01 33J 114	SIROCCO FAN		1	1					
8	R01 17J 110	CASING		3	3					
9	R01 17J 202	INDOOR COIL THERMISTOR		1	1			RT2		
10	R01 18J 202	ROOM TEMPERATURE THERMISTOR		1	1			RT1		
11	T7W 29J 480	HEAT EXCHANGER		1						
	T7W 33J 480	HEAT EXCHANGER			1					
12	R01 29J 529	DRAIN PAN ASSY		1	1					
13	R01 17J 524	DRAIN PLUG		1	1					
14	R01 29J 145	BEARING SUPPORT		1	1					
15	T7W 20J 675	FAN GUARD		1	1					
16	T7W 21J 675	FAN GUARD		2	2					
17	T7W 18J 675	FAN GUARD		1	1					
18	R01 43E 126	PIECE (MOTOR)		1	1					

**FAN PARTS**  
**PC-4GJSA**  
**PC-4GJSA<sub>1</sub>**

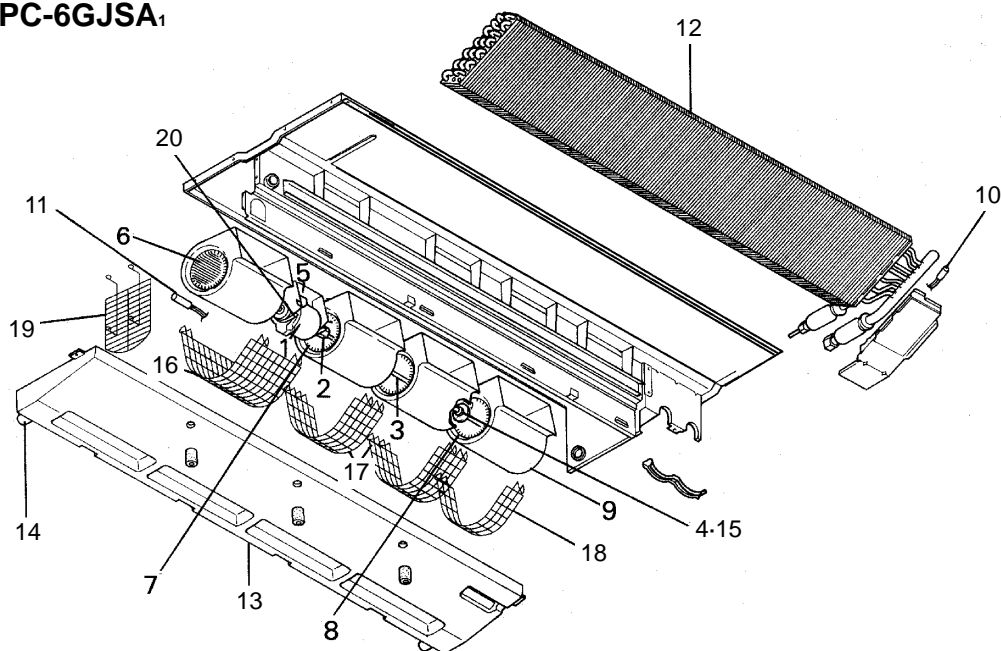


No.	Part No.	Part Name	Specification	Q'ty / set	Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				PC-4				Unit	Amount
				GJSA, GJSA <sub>1</sub>					
1	T7W 39J 762	FAN MOTOR	D10B4P90MS	1		MF			
2	R01 29J 116	FAN JOINT		1					
3	R01 29J 100	SHAFT		1					
4	R01 705 103	SLEEVE BEARING		1					
5	R01 35J 130	MOTOR LEG		1					
6	R01 35J 114	SIROCCO FAN		2					
7	R01 39J 114	SIROCCO FAN		1					
8	R01 35J 110	CASING		3					
9	R01 17J 202	INDOOR COIL THERMISTOR		1		RT2			
10	R01 18J 202	ROOM TEMPERATURE THERMISTOR		1		RT1			
11	T7W 37J 480	HEAT EXCHANGER		1					
12	R01 35J 529	DRAIN PAN ASSY		1					
13	R01 17J 524	DRAIN PLUG		1					
14	R01 35J 145	BEARING SUPPORT		1					
15	T7W 22J 675	FAN GUARD		1					
16	T7W 23J 675	FAN GUARD		2					
17	T7W 24J 675	FAN GUARD		1					
18	R01 43E 126	PIECE (MOTOR)		1					

## FAN PARTS

PC-5GJSA,PC-6GJSA

PC-5GJSA<sub>1</sub>,PC-6GJSA<sub>1</sub>



No.	Part No.	Part Name	Specification	Q'ty / set		Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				PC-5 GJSA, GJSA <sub>1</sub>	PC-6 GJSA, GJSA <sub>1</sub>				Unit	Amount
1	T7W 43J 762	FAN MOTOR	D10B4P150MS	1	1		MF			
2	R01 29J 116	FAN JOINT		1	1					
3	R01 29J 100	SHAFT		1	1					
4	R01 705 103	SLEEVE BEARING		1	1					
5	R01 41J 130	MOTOR LEG		1	1					
6	R01 41J 114	SIROCCO FAN		1	1					
7	R01 39J 114	SIROCCO FAN		1	1					
8	R01 35J 114	SIROCCO FAN		2	2					
9	T7W B07 110	CASING		4	4					
10	R01 17J 202	INDOOR COIL THERMISTOR		1	1		RT2			
11	R01 14N 202	ROOM TEMPERATURE THERMISTOR		1	1		RT1			
12	T7W 41J 480	HEAT EXCHANGER		1						
	T7W 45J 480	HEAT EXCHANGER			1					
13	R01 41J 529	DRAIN PAN ASSY		1	1					
14	R01 17J 524	DRAIN PLUG		1	1					
15	R01 35J 145	BEARING SUPPORT		1	1					
16	T7W 25J 675	FAN GUARD		1	1					
17	T7W 23J 675	FAN GUARD		2	2					
18	T7W 24J 675	FAN GUARD		1	1					
19	T7W 26J 675	FAN GUARD		1	1					
20	R01 43E 126	PIECE (MOTOR)		1	1					

## ELECTRICAL PARTS

PC-2GJA, PC-2GJA<sub>1</sub>

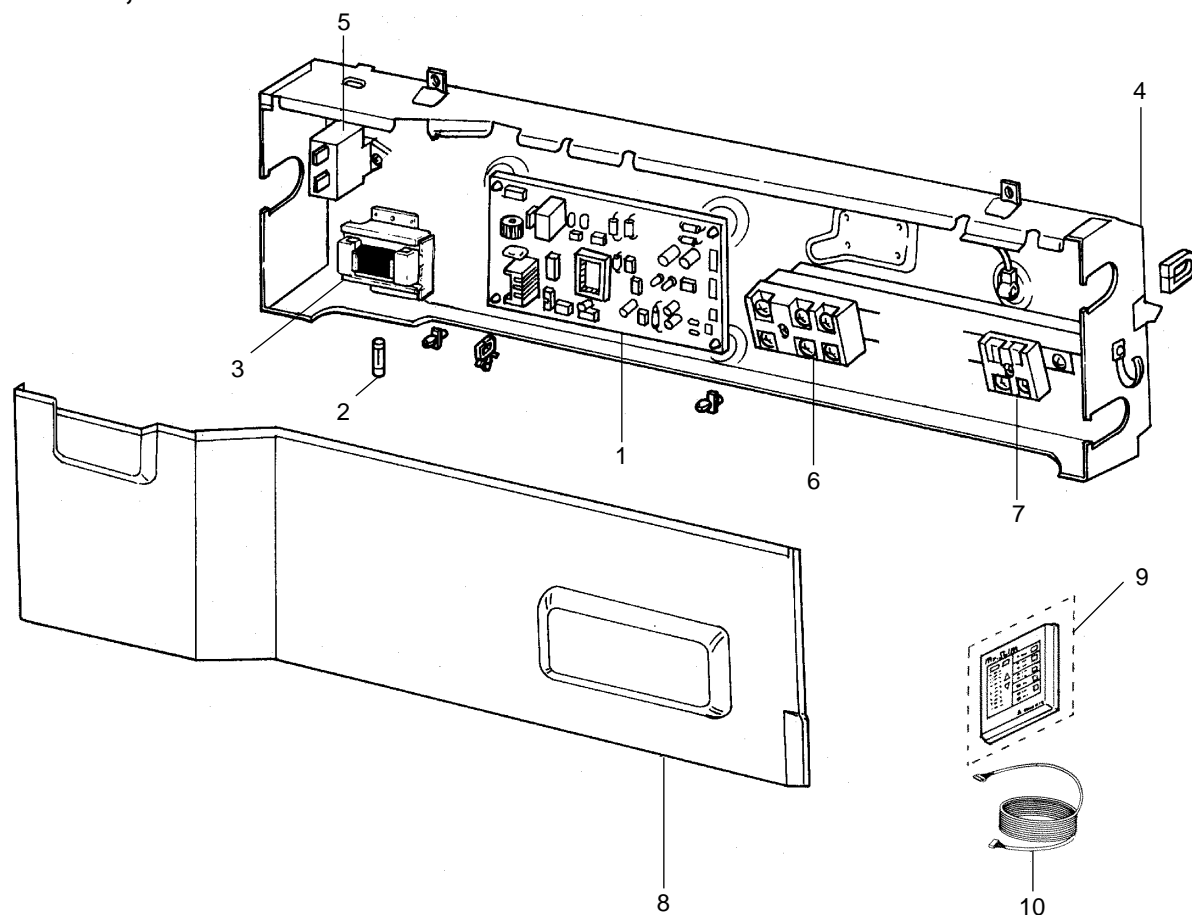
PC-2.5GJA, PC-2.5GJA<sub>1</sub>

PC-3GJA, PC-3GJA<sub>1</sub>

PC-4GJSA, PC-4GJSA<sub>1</sub>

PC-5GJSA, PC-5GJSA<sub>1</sub>

PC-6GJSA, PC-6GJSA<sub>1</sub>

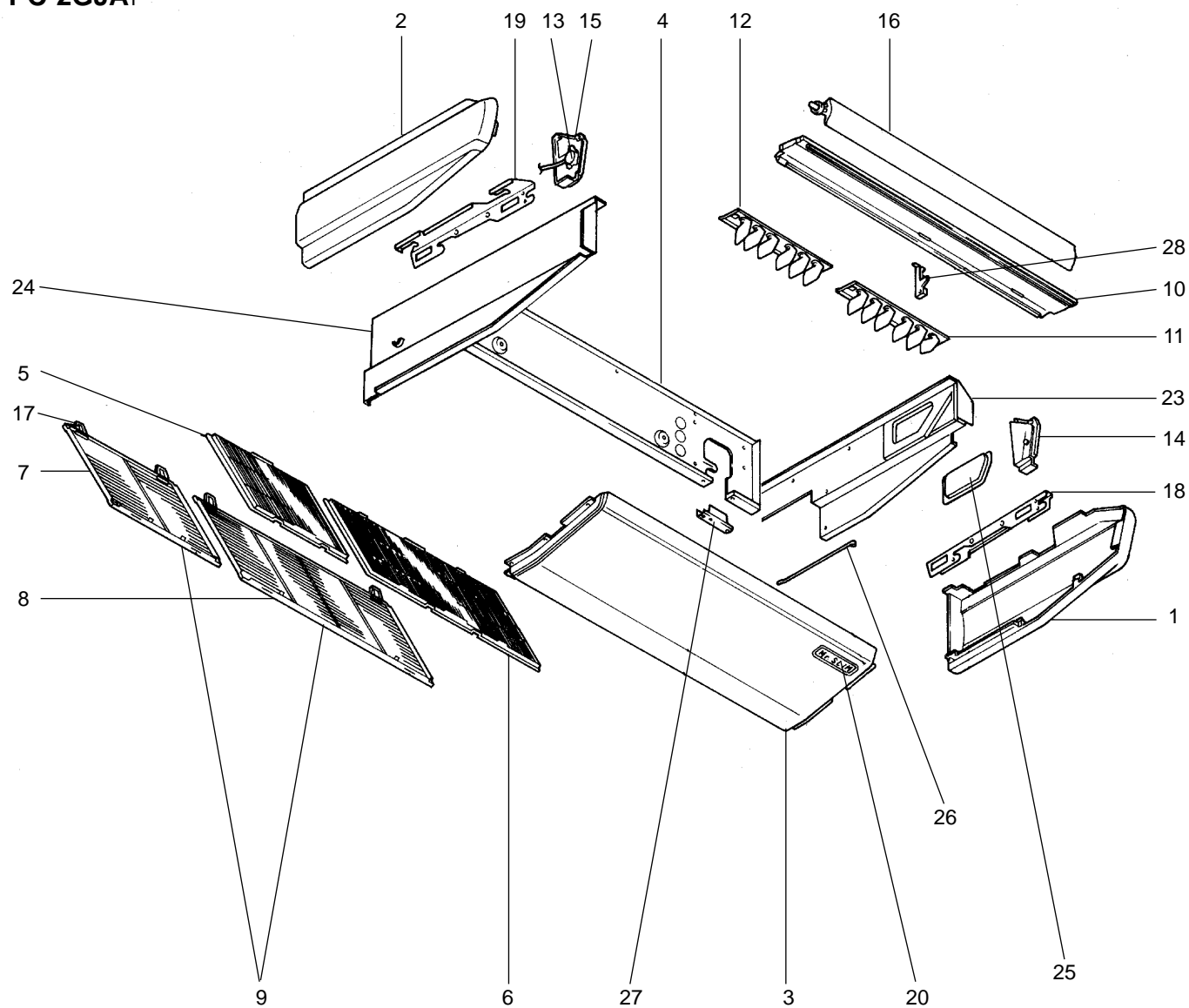


No.	Part No.	Part Name	Specification	Q'ty / set				Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				PC-2 GJA GJA <sub>1</sub>	PC-2.5/3 GJA GJA <sub>1</sub>	PC-4 GJSA GJSA <sub>1</sub>	PC-5/6 GJSA GJSA <sub>1</sub>				Unit	Amount
1	T7W 27K 310	CONTROLLER BOARD		1	1	1	1		I.B			
2	T7W 520 239	FUSE	250V 6.3A	1	1	1	1		F1,2<I.B>			
3	T7W 23J 260	TRANSFORMER		1	1	1	1		T			
4	—	CONTROL BOX		1	1	1	1	(BG00N015G12)				
5	R01 30L 255	CAPACITOR	3μF 400V	1					C			
	T7W 39J 255	CAPACITOR			1	1			C			
	T7W 43J 255	CAPACITOR					1		C			
6	T7W 521 716	TERMINAL BLOCK	3P(L,N,⊕)	1	1	1	1		TB2			
7	T7W 512 716	TERMINAL BLOCK	2P(1,2)	1	1	1	1		TB5			
8	—	BOX COVER		1				(BG02A804G12)				
	—					1		(BG02A804G14)				
	—				1		1	(BG02A804G13)				
9	T7W 20K 200	REMOTE CONTROLLER		1	1	1	1		R.B			
10	T7W 139 305	REMOTE CONTROLLER CORD	12m	1	1	1	1					

## STRUCTURAL PARTS

PC-2GJA

PC-2GJA<sub>1</sub>

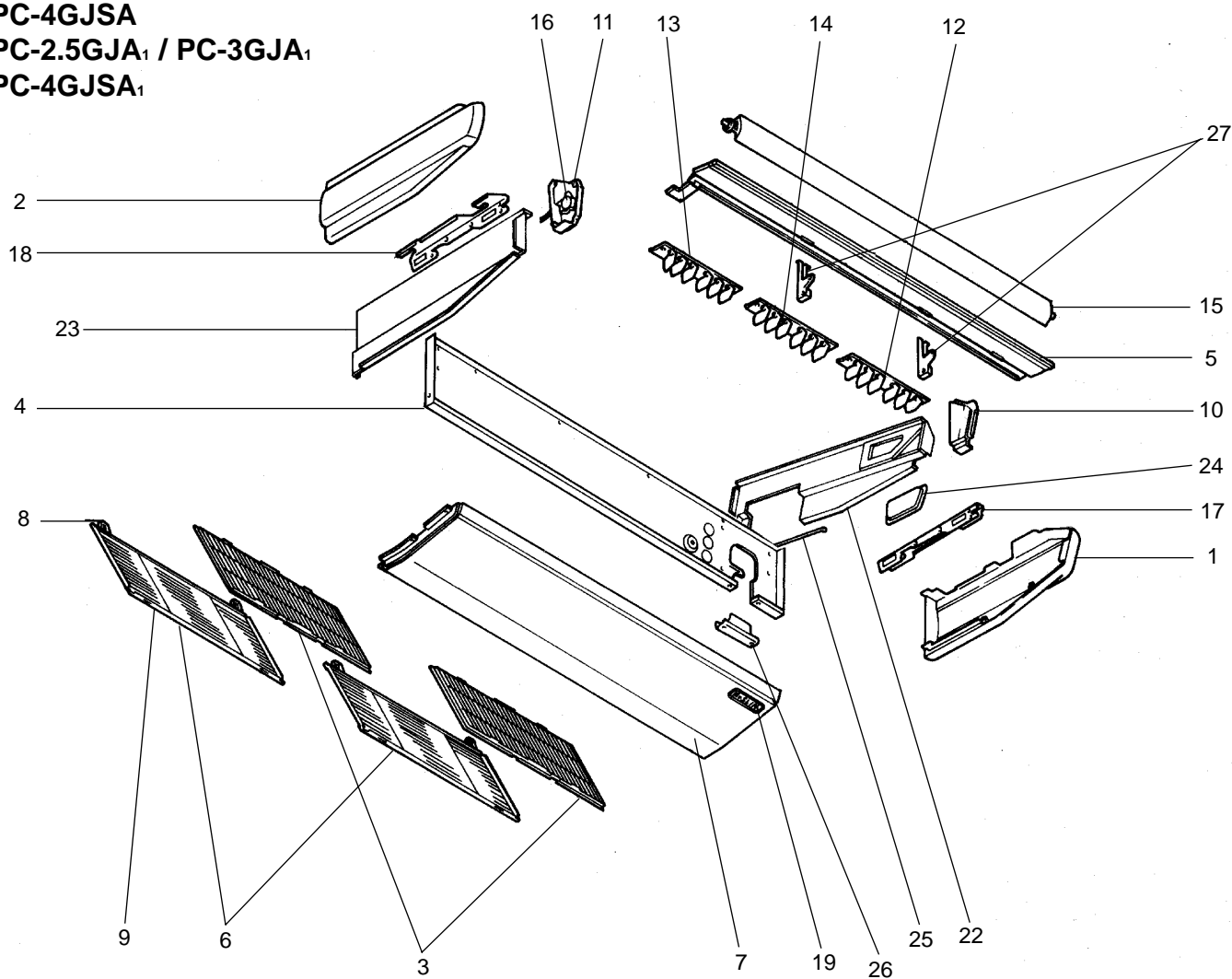




Part numbers that are circled not shown in the figure.

No.	Part No.	Part Name	Specification	Q'ty / set	Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				PC-2				Unit	Amount
				GJA, GJA <sub>1</sub>					
1	R01 17J 661	RIGHT SIDE PANEL		1					
2	R01 17J 662	LEFT SIDE PANEL		1					
3	R01 17J 669	UNDER PANEL		1					
4	R01 17J 676	REAR PANEL		1					
5	R01 17J 500	L.L. FILTER		1					
6	R01 18J 500	L.L. FILTER		1					
7	R01 17J 691	GRILLE ASSY		1					
8	R01 18J 691	GRILLE ASSY		1					
9	R01 17J 054	GRILLE CATCH		4					
10	R01 17J 651	FRONT PANEL		1					
11	R01 17J 085	GUIDE VANE ASSY-6R.		1					
12	R01 18J 086	GUIDE VANE ASSY-6L.		1					
13	R01 29J 223	VANE MOTOR		1		MV			
14	R01 17J 067	RIGHT SIDE BOX		1					
15	R01 17J 068	LEFT SIDE BOX		1					
16	R01 17J 002	AUTO VANE		1					
17	R01 17J 061	GRILLE HINGE		2					
18	R01 17J 808	RIGHT LEG		1					
19	R01 17J 809	LEFT LEG		1					
20	R01 17J 070	WIRELESS BOARD CASE		1					
21	R01 17J 523	JOINT SOCKET		1					
22	R01 17J 072	DRAIN HOSE COVER		1					
23	R01 18J 665	SIDE PLATE-R.		1					
24	R01 18J 666	SIDE PLATE-L.		1					
25	R01 17J 668	SERVICE PANEL		1					
26	—	BEAM(GA)		2	(BG17H464H08)				
27	—	REAR SUPPORT		1	(BG02H454H04)				
28	—	VANE SUPPORT		1	(BG02R321G06)				

**STRUCTURAL PARTS**  
**PC-2.5GJA / PC-3GJA**  
**PC-4GJSA**  
**PC-2.5GJA<sub>1</sub> / PC-3GJA<sub>1</sub>**  
**PC-4GJSA<sub>1</sub>**

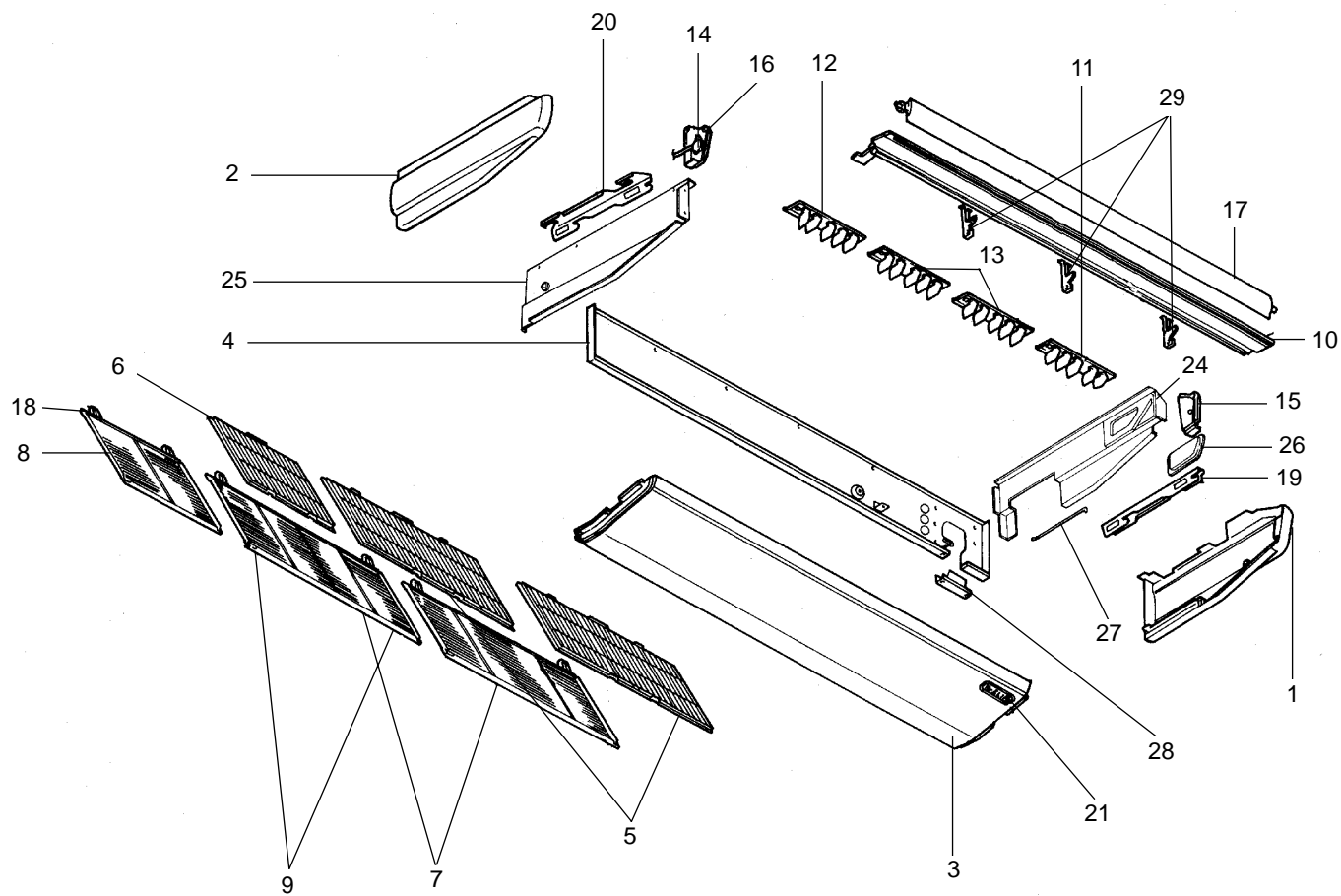




Part numbers that are circled not shown in the figure.

No.	Part No.	Part Name	Specification	Q'ty / set		Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				PC-2.5/3	PC-4				Unit	Amount
				GJA,GJA1	GJSA,GJSA1					
1	R01 17J 661	RIGHT SIDE PANEL		1						
	R01 35J 661	RIGHT SIDE PANEL			1					
2	R01 17J 662	LEFT SIDE PANEL		1						
	R01 35J 662	LEFT SIDE PANEL			1					
3	R01 17J 500	L.L. FILTER		2	2					
4	R01 29J 676	REAR PANEL		1						
	R01 35J 676	REAR PANEL			1					
5	R01 29J 651	FRONT PANEL		1						
	R01 36J 651	FRONT PANEL			1					
6	R01 17J 691	GRILLE ASSY		2	2					
7	R01 29J 669	UNDER PANEL		1	1					
8	R01 17J 061	GRILLE HINGE		4	4					
9	R01 17J 054	GRILLE CATCH		4	4					
10	R01 17J 067	RIGHT SIDE BOX		1						
	R01 35J 067	RIGHT SIDE BOX			1					
11	R01 17J 068	LEFT SIDE BOX		1						
	R01 35J 068	LEFT SIDE BOX			1					
12	R01 17J 085	GUIDE VANE ASSY-6R.		1	1					
13	R01 18J 086	GUIDE VANE ASSY-6L.		1	1					
14	R01 29J 087	GUIDE VANE ASSY-6C.		1	1					
15	R01 29J 002	AUTO VANE		1						
	R01 35J 002	AUTO VANE			1					
16	R01 29J 223	VANE MOTOR		1			MV			
	R01 35J 223	VANE MOTOR			1		MV			
17	R01 17J 808	RIGHT LEG		1	1					
18	R01 17J 809	LEFT LEG		1	1					
19	R01 17J 070	WIRELESS BOARD CASE		1	1					
20	R01 17J 523	JOINT SOCKET		1	1					
21	R01 17J 072	DRAIN HOSE COVER		1	1					
22	R01 18J 665	SIDE PLATE-R.		1						
	R01 35J 665	SIDE PLATE-R.			1					
23	R01 18J 666	SIDE PLATE-L.		1						
	R01 35J 666	SIDE PLATE-L.			1					
24	R01 17J 668	SERVICE PANEL		1	1					
25	—	BEAM(GA)		2	2	(BG17H464H08)				
26	—	REAR SUPPORT		1	1	(BG02H454H04)				
27	—	VANE SUPPORT		2		(BG02R321G06)				
	—	VANE SUPPORT			2	(BG02R805G04)				

**STRUCTURAL PARTS**  
**PC-5GJSA/PC-6GJSA**  
**PC-5GJSA<sub>1</sub>/PC-6GJSA<sub>1</sub>**





Part numbers that are circled not shown in the figure.

No.	Part No.	Part Name	Specification	Q'ty / set	Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				PC-5/6				Unit	Amount
				GJSA,GJSA1					
1	R01 35J 661	RIGHT SIDE PANEL		1					
2	R01 35J 662	LEFT SIDE PANEL		1					
3	R01 41J 669	UNDER PANEL		1					
4	R01 41J 676	REAR PANEL		1					
5	R01 17J 500	L.L.FILTER		2					
6	R01 18J 500	L.L.FILTER		1					
7	R01 17J 691	GRILLE ASSY		2					
8	R01 18J 691	GRILLE ASSY		1					
9	R01 17J 054	GRILLE CATCH		6					
10	R01 41J 651	FRONT PANEL		1					
11	R01 41J 085	GUIDE VANE ASSY-5R.		1					
12	R01 42J 086	GUIDE VANE ASSY-5L.		1					
13	R01 43J 087	GUIDE VANE ASSY-5C.		2					
14	R01 35J 223	VANE MOTOR		1		MV			
15	R01 35J 067	RIGHT SIDE BOX		1					
16	R01 35J 068	LEFT SIDE BOX		1					
17	R01 41J 002	AUTO VANE		1					
18	R01 17J 061	GRILLE HINGE		6					
19	R01 17J 808	RIGHT LEG		1					
20	R01 17J 809	LEFT LEG		1					
21	R01 17J 070	WIRELESS BOARD CASE		1					
22	R01 17J 523	JOINT SOCKET		1					
23	R01 17J 072	DRAIN HOSE COVER		1					
24	R01 35J 665	SIDE PLATE-R.		1					
25	R01 35J 666	SIDE PLATE-L.		1					
26	R01 17J 668	SERVICE PANEL		1					
27	—	BEAM(GA)		3	(BG17H464H08)				
28	—	REAR SUPPORT		1	(BG02H454H04)				
29	—	VANE SUPPORT		3	(BG02R805G04)				

## 1. REFRIGERANT PIPES

Service Ref. : PC-2GJA<sub>1</sub> / PC-2.5GJA<sub>1</sub> / PC-3GJA<sub>1</sub>

Part No.	PAC-05FFS-E	PAC-07FFS-E	PAC-10FFS-E	PAC-15FFS-E
Pipe length	5m	7m	10m	15m
Pipe size O.D.	Liquid:φ9.52		Gas:φ15.88	
Connection method	Indoor unit:Flared		Outdoor unit:Flared	

Service Ref. : PC-4GJSA<sub>1</sub>/PC-5GJSA<sub>1</sub>/PC-6GJSA<sub>1</sub>

Part No.	PAC-SC51PI-E	PAC-SC52PI-E	PAC-SC53PI-E	PAC-SC54PI-E
Pipe length	5m	7m	10m	15m
Pipe size O.D.	Liquid:φ9.52		Gas:φ19.05	
Connection method	Indoor unit:Flared		Outdoor unit:Flared	

Note 1. How to connect refrigerant pipes.

Factory supplied optional refrigerant pipings contain refrigerant at the above atmospheric pressures. As long as connection takes no more than 5 minutes, no air will enter, and there will be no need for air purging.

Remove the blind caps and make the connections within 5 minutes. After the connections for the indoor and outdoor units are made, open the stop valve on the outdoor unit to allow refrigerant gas to flow.

If piping length exceeds 5m, an additional charge of refrigerant is needed.

Note 2. The following main parts are contained in the optional refrigerant piping kit.

Heat insulating cover, vinyl tapes, nipples, sleeve and flange (for wall hole), connecting cables.

## 2. REMOTE CONTROLLER EXTENSION CABLE

When installing the remote controller at a distance from the air conditioner, use the designated extension cable with connector.

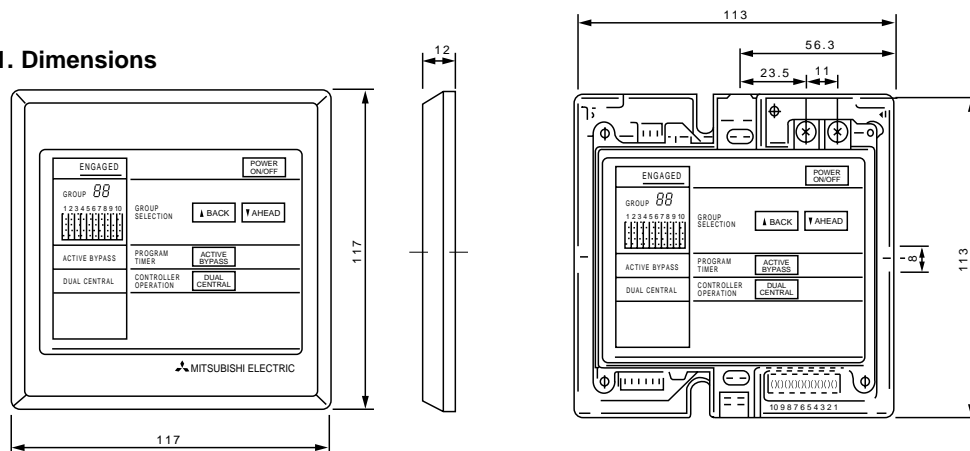
Part No.	PAC-905EC	PAC-906EC	PAC-918EC	PAC-919EC
Length	12m	20m	30m	50m

### 3. CENTRALIZED REMOTE CONTROLLER

Allows individual or combined control of up to 16 units.

Part No.	PAC-805RC
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#### 3-1. Dimensions



#### 3-2. Names and Functions

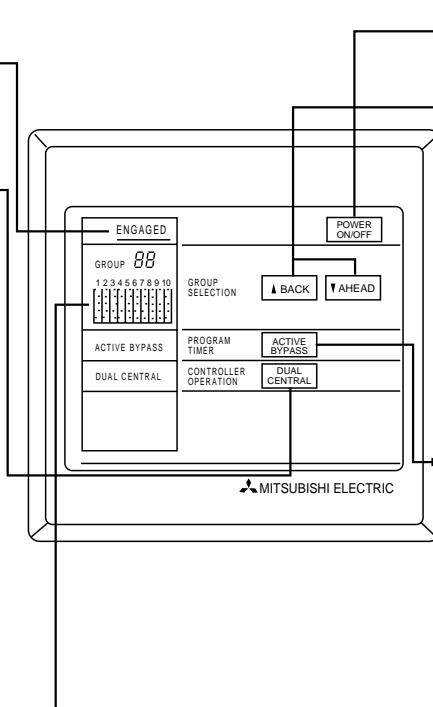
**"ENGAGED" indicator**  
When this indicator is lit, transmission is in progress and all switches are inoperative.

**DUAL/CENTRAL switch**  
This change-over switch governs the operation of the accessory remote controller.

**"DUAL"**  
Instructions from both the accessory remote controller and the centralized remote controller are valid. (Priority is given to the last instruction received.)

**"CENTRAL"**  
ON/OFF switching by the accessory remote controller is invalidated. Operation is controlled by the centralized remote controller only.  
Initial setting is "DUAL".

**LCD Matrix Display**  
This display indicates the operational status of all connected units either by steady lighting or by flashing.



**POWER ON/OFF switch**  
Operation ON/OFF switch.

**▲BACK ▼AHEAD buttons**  
These buttons are used to designate the attached unit(s). (They designate the unit to be centrally controlled.)

●When group "00" is designated; collective ON/OFF instruction is sent to all units.

●When group "01"-"16" is designated; ON/OFF instruction is sent to the designated units.

**ACTIVE/BYPASS switch**  
This change-over switch for the program timer.  
Use "ACTIVE" when a program timer is connected.  
Use "BYPASS" when a program timer is not connected.

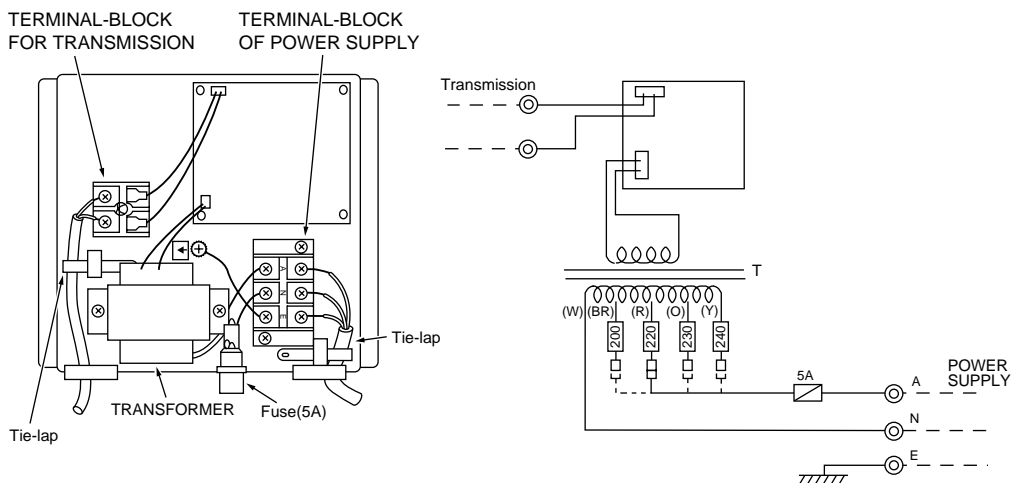
Independent "DUAL / CENTRAL" and "ACTIVE / BYPASS" setting of all the groups is possible. When the power supply to the centralized remote controller is cut, due to power failure, all settings will return to original "DUAL" and "BYPASS".

### 3-3 Connection method

#### (1) Connections in the power supply cord.

1. Connect the power supply cord to the power supply terminal-block and fix it in-place with a tie-lap. Connect a single phase 200V AV (220, 230, 240V) to (A) (N). As (E) is the GND terminal, be sure to ground the earth wire.
2. Connect the transmission line to the transmission terminal-block and fix it in-place with a tie-lap. Use a  $\Omega 1.6$  (AWG 14) or above two-wire cable for the transmission line.

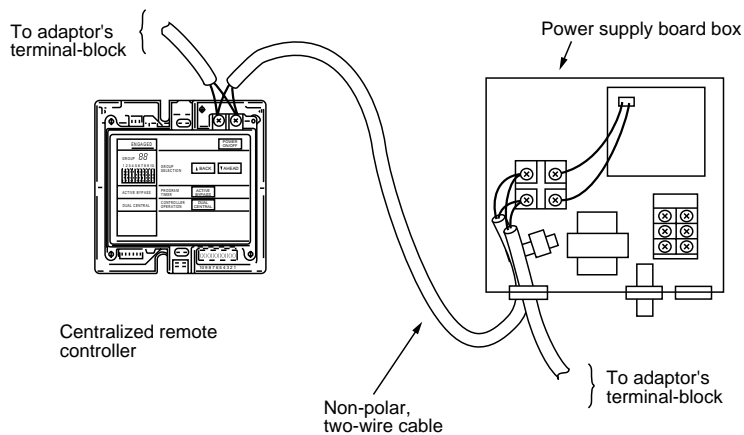
**CAUTION :** Never connect the power supply cord to the transmission terminal-block.



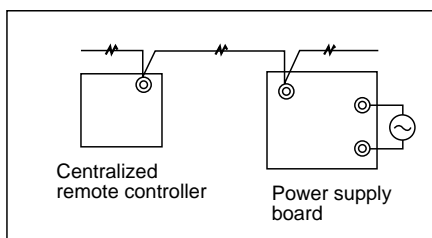
Wiring has to be changed when a 200,230 or 240V power is used.

#### (2) Connection method of centralized remote controller and power supply board.

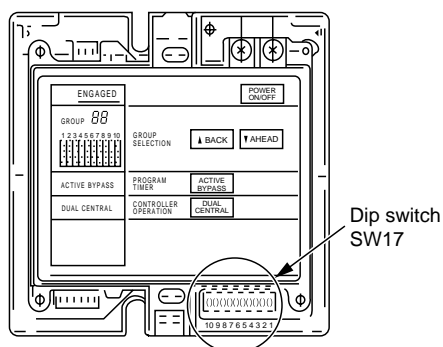
1. Connect the centralized remote controller and power supply board with a non-polar, two-wire cable.



#### 2. Wiring diagram



3. Set the maximum address number with the dipswitch SW17 on the centralized remote controller.



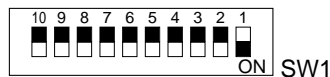
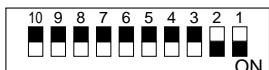


4. Set the address number (from SW1-1 to SW1-6) in the dipswitch when a centralized remote controller is being used.

The address is the control number of each unit in the centralized control system.

As the address serves as a time-delay device as well, sequential starts (all units are triggered collectively by one single ON instruction) must be set with different address numbers (greater than 0) for each adapter.

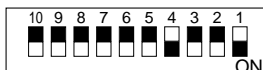
(Ex.1)  $3 = 2 + 1$



Levers No. 1-6 can set the following addresses respectively with binary notations.

Toggle	No.6 ON	No.5 ON	No.4 ON	No.3 ON	No.2 ON	No.1 ON
Address	32	16	8	4	2	1

(Ex.2)  $9 = 8 + 1$



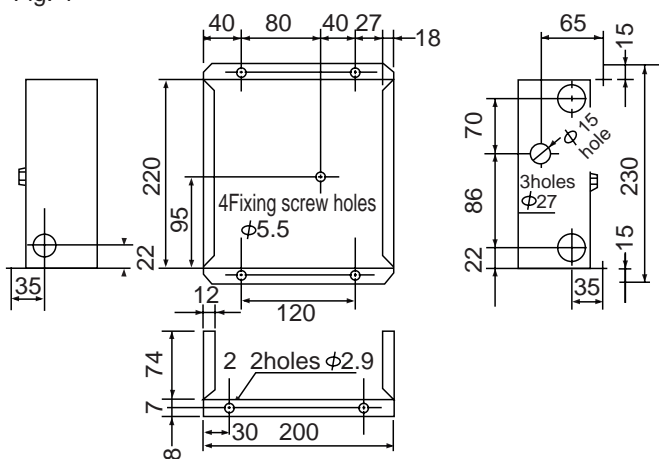
(Ex.3)  $15 = 8 + 4 + 2 + 1$



## 5. Dimensions

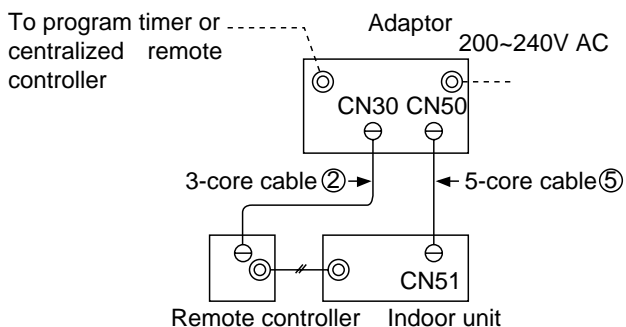
Fig. 4

(Unit : mm)



## (3) Connection from adaptor

Fig.3



Max. length of each cable is 10m.

## 4.TIMER ADAPTER

This adapter is needed for system control and for operation via external contacts.

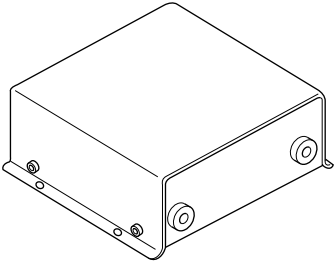
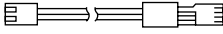
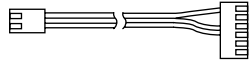
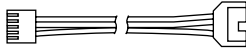

Part No.	PAC-SA89TA-E		
ORN	1		
BRN	2		
RED	3		

## 5. PROGRAM TIMER ADAPTER

This adapter is needed when a program timer(PAC-815PT)or a centralized remote controller(PAC-805RC)is used.

Part No.	PAC-825AD
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### 5-1 Parts included

① ADAPTER .....1P	② 3-core cable .....1P	③ 3-core cable .....1P
	 <p>Length : 2m (6' 7")</p>	 <p>Length : 2m (6' 7")</p>
	④ 4-core cable .....1P	⑤ 5-core cable .....1P
	 <p>Length : 2m (6' 7")</p>	 <p>Length : 2m (6' 7")</p>

### 5-2 Connection method

Connection and wiring methods differ with the type of the indoor unit used. Confirm the type before carrying out the work.

#### (1) Connections in the adapter box

1. Connect the power supply cord to the terminal-block and fix it in-place with a tie-lap.  
Connect a single phase 200V (220, 230, 240V) AV to ① ②.  
As ③ is the GND terminal, be sure to ground the earth wire.
2. Connect the transmission line to the transmission terminal-block and fix it in-place with a tie-lap (when a centralized remote controller is being used).

**CAUTION : Never connect the power supply cord to the transmission terminal-block**

Fig-1

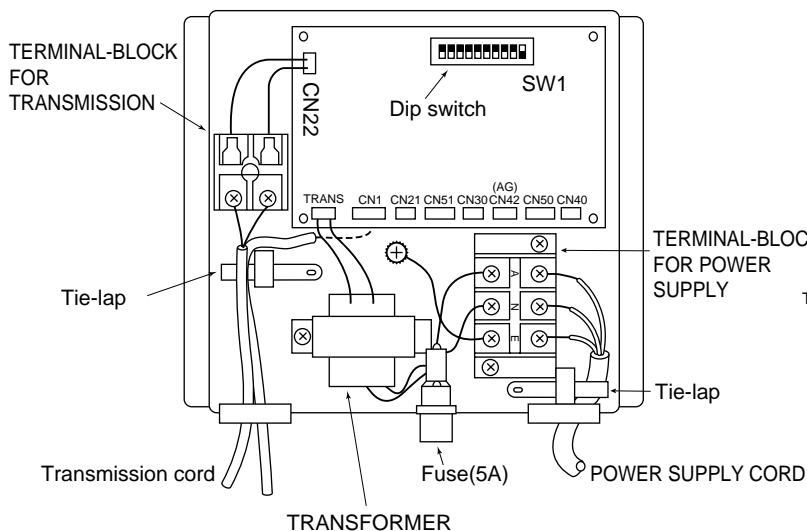
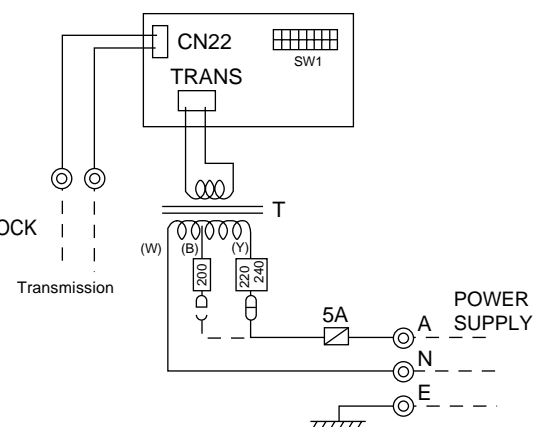


Fig-2

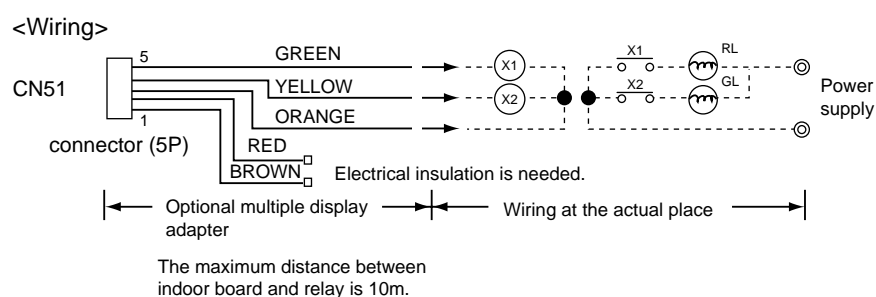
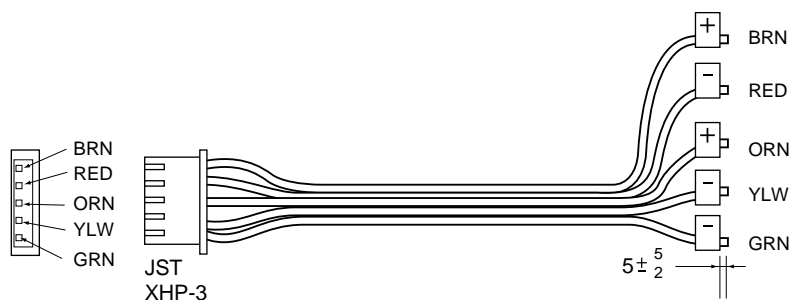


Wiring has to be changed when 200V power supply is used.

## 6.REMOTE INDICATION ADAPTER

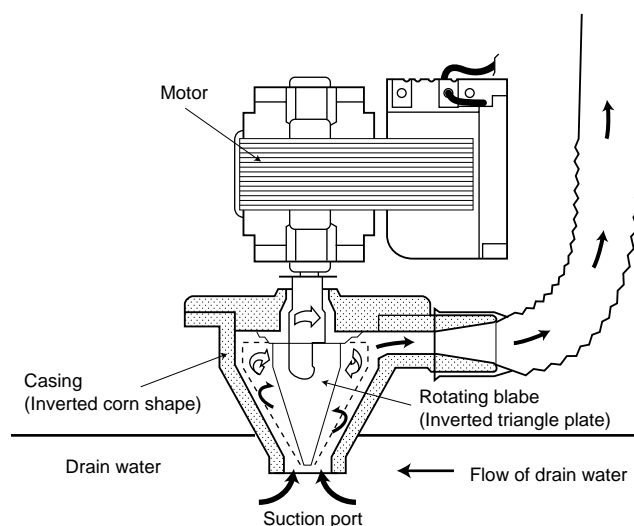
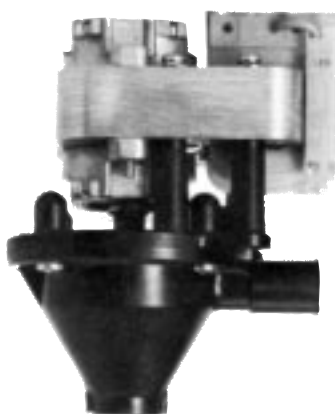
This adapter is used for remote indication (operation / check).

Part No.	PAC-559AD
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## 7.DRAIN PUMP

Applied Service Ref.	PC-2/2.5/3GJA <sub>1</sub>	PC-4/5/6GJSA <sub>(1)</sub>
Part No.	PAC-SE85DM-E	PAC-SE86DM-E



## 8.HIGH PERFORMANCE FILTER

Part No.	PAC-SE80KF-E	PAC-SE80KF-E	PAC-SE82KF-E
Applicable Service Ref.	PC-2GJA <sub>1</sub>	PC-2.5/3/4GJ(S)A <sub>1</sub>	PC-5 / 6GJSA

## 9.WIRELESS KIT

Part No.	PAC-SW93J-E
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Mr. SLIM™



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